

State of California
The Resources Agency

DEPARTMENT OF WATER RESOURCES
Division of Operations and Maintenance

STATE WATER PROJECT OPERATIONS DATA

For the month of:
August 2002

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Governor
State of California

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Secretary for Resources
The Resources Agency

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Director
Department of Water Resource

State of California
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The organization shown above represents staff and positions relevant to this report as of publication date on December 10, 2002. It is the department's policy to not show staff in "Acting" or "Temporary" positions.

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MONTHLY HIGHLIGHTS

The following highlights are activities or actions that impacted State Water Project operations during the month of August 2002.

Statewide precipitation was 75 percent of average for the 2001-2002 water year as of August 31. Statewide runoff was 45 percent of average for the water year. Precipitation percentages are used in this report to express historical and regional comparisons. Additional and more specific information is available via the Internet at: "http://cdec.water.ca.gov/snow_rain.html".

On August 31, total storage in major SWP reservoirs was about 2.67 MAF, compared with about 2.98 MAF at this time in 2001. The average storage in the major SWP reservoirs at the end of August was about 3.42 MAF. The August 31 storage at Lake Oroville was about 1.54 MAF as compared to 2.03 MAF last year. The State's share of San Luis Reservoir storage was about 515 TAF, as compared with 307 TAF at this time last year. On August 31, the combined storage in our southern reservoirs was about 615 TAF, compared with about 639 TAF at this time last year.

Through August, SWP water deliveries for 2002 were about 2.1 MAF. This is a combination of project, transfer, and exchange waters. This is 641 TAF more than that delivered during the same period in 2001.

Net Delta Outflow Index requirement for August was 3,500 cfs average for the month. This standard and the Percentage of Inflow Diverted standard of 65 percent governed Project operations in the Delta.

Joint Point of Diversion and water transfers during August included about 36 TAF of Article 55 water, including CVC exchange to KCWA and Tulare Lake Basin Water Storage District and 8.4 TAF of Cross Valley exchange to Westlands Water District.

The SWP exported about 44 TAF of water purchased by the EWA from Yuba County Water Agency. Of that, 21.7 TAF was pumped at Banks for the CVP as payment for past export curtailments at the CVP. The remaining portion was pumped at Banks as payment for earlier SWP export curtailments.

Shutters to the intake of Hyatt Power Plant were removed regularly (about once a week) to maintain adequate water temperatures at Robinson Riffle and the fish hatchery.

Table 1. Antelope Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 22,566 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jul 31	4998.89	19,773								
1	4998.82	19,713	-60	20	0	0	0			
2	4998.75	19,653	-60	20	0	0	0			
3	4998.67	19,584	-69	20	0	0	0			
4	4998.60	19,524	-60	20	0	0	0			
5	4998.56	19,484	-40	20	0	0	0			
6	4998.43	19,379	-105	20	0	0	0			
7	4998.36	19,319	-60	20	0	0	0			
8	4998.30	19,268	-51	20	0	0	0			
9	4998.23	19,209	-59	20	0	0	0			
10	4998.17	19,158	-51	20	0	0	0			
11	4998.10	19,098	-60	20	0	0	0			
12	4998.06	19,065	-33	20	0	0	0			
13	4997.98	18,997	-68	20	0	0	0			
14	4997.91	18,938	-59	20	0	0	0			
15	4997.84	18,879	-59	20	0	0	0			
16	4997.77	18,821	-58	20	0	0	0			
17	4997.70	18,762	-59	20	0	0	0			
18	4997.64	18,712	-50	20	0	0	0			
19	4997.55	18,637	-75	20	0	0	0			
20	4997.47	18,570	-67	20	0	0	0			
21	4997.39	18,504	-66	20	0	0	0			
22	4997.32	18,446	-58	20	0	0	0			
23	4997.25	18,388	-58	20	0	0	0			
24	4997.20	18,347	-41	20	0	0	0			
25	4997.11	18,272	-75	20	0	0	0			
26	4997.05	18,223	-49	20	0	0	0			
27	4996.97	18,157	-66	20	0	0	0			
28	4996.92	17,116	-1,041	20	0	0	0			
29	4996.86	18,067	951	20	0	0	0			
30	4996.80	18,018	-49	20	0	0	0			
31	4996.71	17,945	-73	20	0	0	0			
Total cfs-days				---	620	0	0	317	937	16
Total ac-ft				-1,828	1,230	0	0	629	1,859	31

1/ Values not available on a daily basis.

Table 2. Frenchman Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 55,477 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs					Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right				
Jul 31	5565.14	26,285								
1	5565.06	26,206	-79	0	28	0	0			
2	5565.00	26,146	-60	0	29	0	0			
3	5564.89	26,038	-108	0	29	0	0			
4	5564.81	25,958	-80	0	29	0	0			
5	5564.74	25,881	-77	0	37	0	0			
6	5564.60	25,753	-128	0	41	0	0			
7	5564.43	25,586	-167	0	41	0	0			
8	5564.32	25,479	-107	0	38	0	0			
9	5564.29	25,450	-29	0	36	0	0			
10	5564.13	25,294	-156	0	36	0	0			
11	5564.09	25,256	-38	0	36	0	0			
12	5563.97	25,139	-117	0	34	0	0			
13	5563.83	25,004	-135	0	25	0	0			
14	5563.76	24,937	-67	0	30	0	0			
15	5563.73	24,908	-29	0	35	0	0			
16	5563.10	24,793	-115	0	35	0	0			
17	5563.51	24,697	-96	0	35	0	0			
18	5563.46	24,649	-48	0	35	0	0			
19	5563.36	24,554	-95	0	29	0	0			
20	5563.29	24,487	-67	0	25	0	0			
21	5563.20	24,401	-86	0	24	0	0			
22	5563.10	24,307	-94	0	24	0	0			
23	5563.00	24,212	-95	0	24	0	0			
24	5562.97	24,184	-28	0	13	0	0			
25	5562.91	24,127	-57	0	8	0	0			
26	5562.90	24,117	-10	0	16	0	0			
27	5562.80	24,023	-94	0	23	0	0			
28	5562.77	23,995	-28	0	26	0	0			
29	5562.64	23,873	-122	0	27	0	0			
30	5562.62	23,854	-19	0	12	0	0			
31	5562.60	23,835	-19	0	4	0	0			
Total cfs-days				---	0	864	0	0	402	
Total ac-ft				-2,450	0	1,714	0	0	798	
									2,512	
									62	

1/ Values not available on a daily basis.

Table 3. Lake Davis

Daily Operation

(in acre-feet except as noted)

Capacity: 84,371 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow in cfs						Computed Inflow 1/	
				Regulated Release			Spill	Estimated Evaporation And Seepage 1/	Total Outflow 1/		
				Stream-flow Maint.	Water Supply Contract	Water Right					
Jul 31	5764.08	46,584									
1	5764.05	46,498	-86	4	0	5	0				
2	5764.02	46,411	-87	5	0	5	0				
3	5763.97	46,267	-144	10	0	0	0				
4	5763.91	46,095	-172	10	0	0	0				
5	5763.86	45,951	-144	10	0	0	0				
6	5763.83	45,865	-86	10	0	0	0				
7	5763.81	45,808	-57	10	0	0	0				
8	5763.78	45,723	-85	10	0	0	0				
9	5763.76	45,665	-58	10	0	0	0				
10	5763.75	45,637	-28	10	0	0	0				
11	5763.73	45,580	-57	10	0	0	0				
12	5763.71	45,523	-57	6	0	4	0				
13	5763.69	45,466	-57	6	0	4	0				
14	5763.67	45,409	-57	6	0	4	0				
15	5763.64	45,324	-85	6	0	4	0				
16	5763.62	45,267	-57	6	0	4	0				
17	5763.58	45,153	-114	6	0	4	0				
18	5763.54	45,040	-113	6	0	4	0				
19	5763.48	44,870	-170	5	0	4	0				
20	5763.44	44,757	-113	6	0	4	0				
21	5763.42	44,701	-56	6	0	4	0				
22	5763.39	44,616	-85	6	0	5	0				
23	5763.37	44,560	-56	6	0	5	0				
24	5763.34	44,476	-84	5	0	5	0				
25	5763.32	44,420	-56	5	0	5	0				
26	5763.30	44,363	-57	5	0	5	0				
27	5763.27	44,279	-84	5	0	5	0				
28	5763.25	44,223	-56	5	0	5	0				
29	5763.24	44,195	-28	5	0	5	0				
30	5763.22	44,139	-56	5	0	5	0				
31	5763.20	44,083	-56	5	0	5	0				
Total cfs-days				- - -	210	0	100	0	966	1,276	
Total ac-ft				-2,501	417	0	198	0	1,917	2,532	
1/ Values not available on a daily basis.											

Table 4. Lake Oroville

Daily Operation

(in acre-feet except as noted)

Capacity: 3,537,580 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Outflow					Inflow	
				Hyatt Powerplant Generation 1/	Palermo Canal	Evaporation 2/	Spill	Total Outflow	Hyatt Powerplant Pumpback	Computed Inflow 3/
Aug 31	771.15	1,883,126								
	1	769.66	1,868,087	-15,039	17,662	31	221	0	17,914	0
	2	768.24	1,853,837	-14,250	16,895	31	231	0	17,157	0
	3	767.04	1,841,856	-11,981	14,395	31	237	0	14,663	0
	4	766.19	1,833,403	-8,453	9,131	31	218	0	9,380	0
	5	764.97	1,821,320	-12,083	15,769	31	178	0	15,978	0
	6	763.79	1,809,688	-11,632	15,899	31	202	0	16,132	0
	7	762.35	1,795,565	-14,123	15,817	31	277	0	16,125	0
	8	761.10	1,783,371	-12,194	16,071	32	275	0	16,378	0
	9	759.62	1,769,008	-14,363	17,463	32	286	0	17,781	0
	10	758.50	1,758,183	-10,825	14,112	32	328	0	14,472	0
	11	757.55	1,749,038	-9,145	12,226	32	296	0	12,554	0
	12	756.01	1,734,285	-14,753	17,032	32	301	0	17,365	0
	13	754.66	1,721,425	-12,860	14,003	32	275	0	14,310	0
	14	753.66	1,711,942	-9,483	13,442	32	250	0	13,724	0
	15	752.39	1,699,953	-11,989	13,831	32	205	0	14,068	0
	16	751.14	1,688,212	-11,741	14,437	32	229	0	14,698	0
	17	750.39	1,681,194	-7,018	10,232	32	204	0	10,468	0
	18	749.85	1,676,155	-5,039	9,416	32	173	0	9,621	0
	19	748.55	1,664,066	-12,089	14,089	32	197	0	14,318	0
	20	747.42	1,653,608	-10,458	13,580	32	160	0	13,772	0
	21	745.85	1,639,156	-14,452	16,268	32	183	0	16,483	0
	22	744.42	1,626,070	-13,086	16,279	32	177	0	16,488	0
	23	742.90	1,612,241	-13,829	16,762	32	169	0	16,963	0
	24	742.18	1,605,719	-6,522	9,639	32	163	0	9,834	0
	25	741.77	1,602,014	-3,705	6,691	32	185	0	6,908	0
	26	740.71	1,592,462	-9,552	12,341	32	209	0	12,582	0
	27	739.56	1,582,145	-10,317	13,267	32	270	0	13,569	0
	28	738.29	1,570,806	-11,339	14,366	32	268	0	14,666	0
	29	737.07	1,559,967	-10,839	14,704	32	239	0	14,975	0
	30	735.74	1,548,210	-11,757	15,083	32	170	0	15,285	0
	31	734.74	1,539,412	-8,798	12,861	32	226	0	13,119	0
Total				-343,714	433,763	985	7,002	0	441,750	0
98,036										

1/ Includes bypass flows

2/ Evaporation will be zero for days when there is precipitation or heavy overcast.

3/ Does not include pumpback.

**Table 5. Thermalito Forebay
Including Diversion Pool and Power Canal**

Daily Operation

(in acre-feet except as noted)

August 2002

Capacity: 25,120 ac-ft

Date	Storage 1/	Storage Change	Inflow			Outflow					Losses (-) And Gains (+)
			Lake Oroville Releases 2/	Kelly Ridge Generation	Thermalito Pumping- Generating Plant Pumpback	Thermalito Pumping- Generating Plant Generation 3/	Butte County	Thermalito Irrigation District	Releases To River 4/	Hyatt Powerplant Pumpback	
Jul 31	23,362										
1	23,264	-98	17,662	506	0	17,098	1	12	1,405	0	250
2	23,718	454	16,895	442	0	15,685	1	12	1,409	0	224
3	23,800	82	14,395	508	0	13,668	1	12	1,407	0	267
4	23,999	199	9,131	504	0	8,190	2	12	1,409	0	177
5	24,072	73	15,769	460	0	14,943	2	12	1,415	0	216
6	24,018	-54	15,899	510	0	15,291	2	12	1,417	0	259
7	23,938	-80	15,817	543	0	15,209	2	12	1,415	0	198
8	23,793	-145	16,071	478	0	15,487	2	12	1,419	0	226
9	23,348	-445	17,463	498	0	17,221	2	12	1,409	0	238
10	24,105	757	14,112	430	0	12,594	2	12	1,401	0	224
11	24,064	-41	12,226	514	0	11,552	2	12	1,407	0	192
12	23,306	-758	17,032	500	0	17,041	2	12	1,417	0	182
13	24,068	762	14,003	506	0	12,553	2	12	1,426	0	246
14	23,576	-492	13,442	428	0	12,801	2	13	1,712	0	166
15	23,727	151	13,831	508	0	12,730	2	13	1,661	0	218
16	24,166	439	14,437	506	0	13,263	2	13	1,428	0	202
17	24,025	-141	10,232	462	0	9,541	2	13	1,428	0	149
18	24,423	398	9,416	462	0	8,478	2	13	1,426	0	439
19	23,896	-527	14,089	508	0	13,993	2	13	1,426	0	310
20	23,824	-72	13,580	536	0	13,213	2	13	1,424	0	464
21	23,194	-630	16,268	534	0	16,119	2	13	1,421	0	123
22	23,647	453	16,279	203	0	14,878	2	13	1,432	0	296
23	23,645	-2	16,762	422	0	16,101	2	13	1,428	0	358
24	23,848	203	9,639	464	0	8,571	2	13	1,424	0	110
25	23,618	-230	6,691	301	0	5,482	2	13	1,563	0	-162
26	23,994	376	12,341	0	0	8,648	2	13	3,471	0	169
27	24,248	254	13,267	0	0	9,708	2	13	3,313	0	23
28	24,051	-197	14,366	0	0	12,775	2	13	2,043	0	270
29	24,197	146	14,704	105	0	13,298	2	13	1,417	0	67
30	23,772	-425	15,083	0	0	14,241	2	13	1,381	0	129
31	23,742	-30	12,861	0	0	12,130	2	13	1,379	0	633
Total		380	433,763	11,838	0	402,502	59	390	49,133	0	6,863

1/ Sum of Thermalito Forebay and Diversion Pool.

3/ Includes Bypass flows at Thermalito.

2/ Sum of releases from Lake Oroville through Hyatt plant, and spill.

4/ The sum of the flows from fish barrier dam and the fish hatchery.

Table 6. Thermalito Afterbay

Daily Operation

(in acre-feet except as noted)

Capacity: 57,040 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow					Losses (-) and Gains (+)	Total Releases to River 2/	
				Thermalito Pumping-Generating Plant Generation 1/	Sutter Butte Canal	Western Canal Lateral	Richvale Canal	Western Canal	Afterbay River Outlet	Thermalito Pumping-Generating Plant Pumpback			
Jul 31	130.45	33,663											
1	130.97	35,451	1,788	17,098	3,174	38	762	1,648	9,580	0	-108	10,985	
2	131.07	35,800	349	15,685	3,174	38	740	1,630	9,580	0	-174	10,989	
3	130.64	34,312	-1,488	13,668	3,174	38	732	1,613	9,580	0	-19	10,987	
4	128.45	27,196	-7,116	8,190	3,174	38	730	1,591	9,580	0	-193	10,989	
5	128.36	26,920	-276	14,943	3,134	38	732	1,565	9,580	0	-170	10,995	
6	128.44	27,165	245	15,291	3,094	38	732	1,541	9,541	0	-100	10,958	
7	128.76	28,155	990	15,209	3,074	38	710	1,515	8,569	0	-313	9,984	
8	129.29	29,833	1,678	15,487	3,055	32	701	1,501	8,588	0	68	10,007	
9	130.22	32,887	3,054	17,221	3,055	26	701	1,501	8,588	0	-296	9,997	
10	129.85	31,655	-1,232	12,594	3,016	26	700	1,501	8,588	0	5	9,989	
11	129.12	29,290	-2,365	11,552	2,975	28	701	1,501	8,588	0	-124	9,995	
12	130.08	32,418	3,128	17,041	2,975	30	702	1,501	8,588	0	-117	10,005	
13	129.66	31,031	-1,387	12,553	2,995	30	625	1,478	8,529	0	-283	9,955	
14	129.75	31,326	295	12,801	2,995	30	571	1,424	7,359	0	-127	9,071	
15	129.89	31,787	461	12,730	2,936	28	520	1,367	7,379	0	-39	9,040	
16	130.14	32,618	831	13,263	2,916	28	504	1,323	7,597	0	-64	9,025	
17	129.30	29,865	-2,753	9,541	2,936	28	502	1,252	7,597	0	21	9,025	
18	128.00	25,831	-4,034	8,478	2,856	28	502	1,214	7,617	0	-295	9,043	
19	128.23	26,524	693	13,993	2,817	28	504	1,150	8,588	0	-213	10,014	
20	128.17	26,342	-182	13,213	2,817	28	504	1,063	8,588	0	-395	10,012	
21	129.19	29,513	3,171	16,119	2,777	28	482	954	8,588	0	-119	10,009	
22	129.86	31,688	2,175	14,878	2,678	26	454	885	8,569	0	-91	10,001	
23	131.15	36,080	4,392	16,101	2,598	25	432	841	7,617	0	-196	9,045	
24	130.30	33,156	-2,924	8,571	2,559	14	389	799	7,557	0	-177	8,981	
25	128.87	28,500	-4,656	5,482	2,519	8	353	787	6,466	0	-5	8,029	
26	128.98	28,846	346	8,648	2,479	6	345	787	4,503	0	-182	7,974	
27	129.39	30,154	1,308	9,708	2,420	6	345	748	4,602	0	-279	7,915	
28	130.43	33,596	3,442	12,775	2,261	4	317	678	6,010	0	-63	8,053	
29	131.39	36,927	3,331	13,298	2,182	4	307	651	6,565	0	-258	7,982	
30	132.56	41,185	4,258	14,241	2,162	4	307	599	6,585	0	-326	7,966	
31	133.10	43,223	2,038	12,130	2,083	4	264	522	6,585	0	-634	7,964	
Total				9,560	402,502	87,060	765	16,870	37,130	245,851	0	-5,266	294,984

1/ Includes Bypass flows at Thermalito.

2/ The sum of the flows from the fish barrier dam, fish hatchery, and afterbay river outlet.

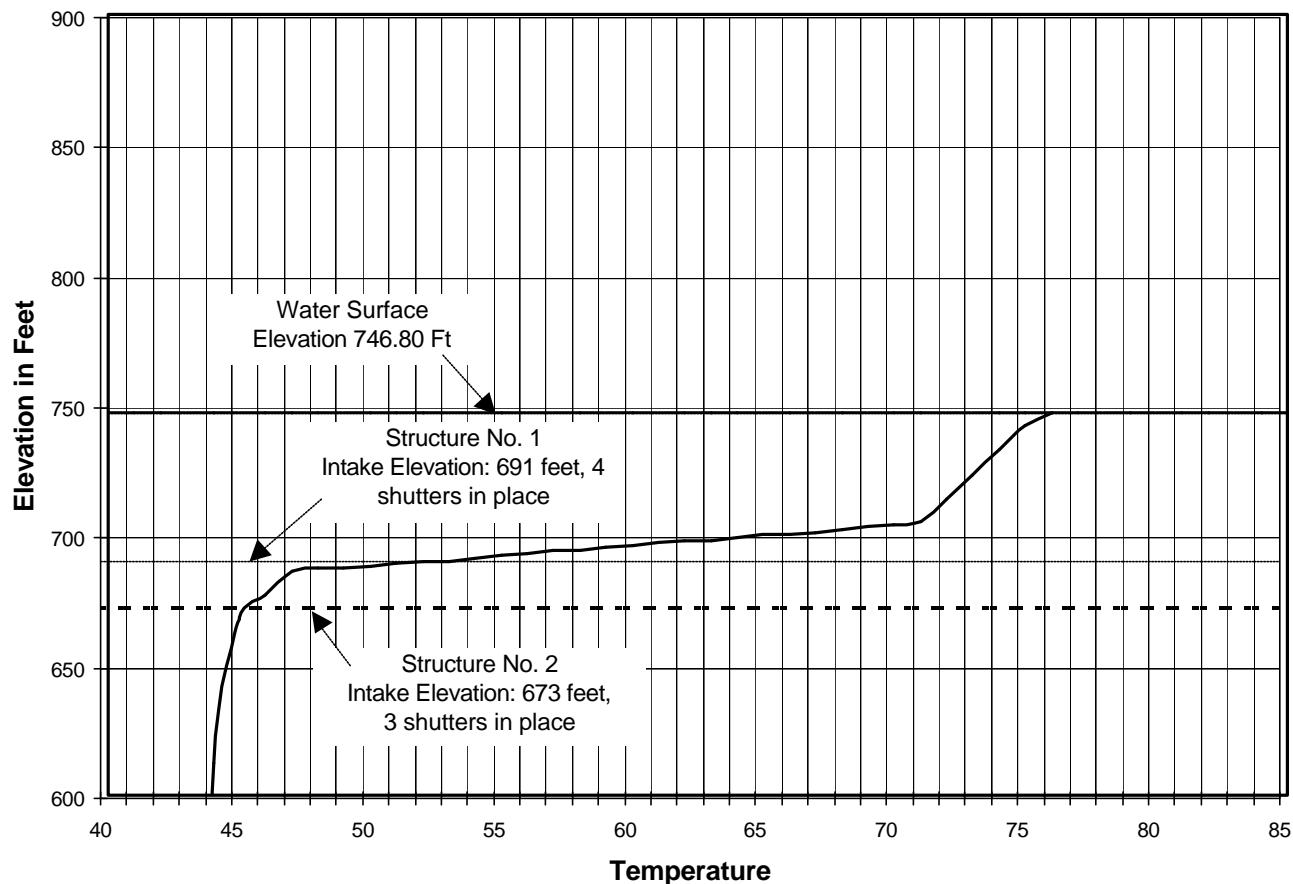
Table 7. Oroville-Thermalito Complex

Water Temperature Data

(in degrees Fahrenheit)

August 2002

Date	Mean Daily Temperature	
	Thermalito Afterbay Outlet	Fish Hatchery
1	63	57
2	62	58
3	62	59
4	63	60
5	63	60
6	63	60
7	64	57
8	64	57
9	63	59
10	63	59
11	63	58
12	64	60
13	64	61
14	64	61
15	65	58
16	66	58
17	65	58
18	65	57
19	64	57
20	63	59
21	62	61
22	62	60
23	62	57
24	63	58
25	64	56
26	65	57
27	66	59
28	66	60
29	64	56
30	64	53
31	65	53

**Lake Oroville Temperature Profile
on August 21, 2002**

Note: Water surface elevations on Table 4 are taken at Oroville Dam at midnight and may differ slightly from those shown on this table which are normally taken at mid-day and upstream from Oroville Dam.

Table 8. North Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement			Purchase Pool B		
	No.	Structure	Mile			M & I	Benicia	Vallejo			
1	1	Barker Slough Pumping Plant	0.17	(Into the North Bay Aqueduct)	6,079	484	334	2,355	192		
		Travis Surge Tank	8.78								
			8.80	Solano County Water Agency Travis Turnout	484						
			10.54	Solano County Water Agency Fairfield / Vacaville 24"	334						
				Solano County Water Agency Fairfield / Vacaville 42"	2,355						
	3A		17.00	Solano County Water Agency Central Solano	Stub	795	192	600	600		
		Cordelia Forebay	21.23								
		Cordelia Pumping Plant & Cordelia Spillway	21.30		2,786						
		Napa Pipeline	21.33	Solano County Water Agency Vallejo	792						
				Solano County Water Agency Benicia	1,395						
3B	2	Cordelia Surge Tank	23.33			13	13	283	283		
		Creston Surge Tank Connection	25.65								
			26.95	Napa County Flood Control & WCD American Canyon 2	13						
			27.27	Napa County Flood Control & WCD American Canyon 3	0						
		Napa Terminal Tank	27.58	City of Napa	360	77	77	226	226		
			27.60	Napa County Flood Control & WCD American Canyon 1	226						

Table 9. Delta Field Division Plant Data

(in acre-feet)

August 2002

Date	North Bay Aqueduct		California Aqueduct		South Bay Aqueduct			
	Barker Slough Pumping Plant	Cordelia Pumping Plant	Banks Pumping Plant		South Bay Pumping Plant	Del Valle Pumping Plant		
			Total	SWP		Into Lake	Into Aqueduct	Gravity Flow Through Plant Into Aqueduct
1	203	100	14,854	11,831	617	0	0	50
2	205	98	12,983	9,960	617	0	0	50
3	209	101	14,140	11,117	617	0	0	50
4	179	73	14,081	12,896	617	0	0	30
5	170	62	14,271	11,248	617	0	0	30
6	177	70	13,465	10,442	612	0	0	40
7	195	94	12,930	9,907	617	0	0	40
8	220	114	13,880	11,762	617	0	0	40
9	224	112	13,772	11,654	617	0	0	40
10	219	106	14,086	11,968	617	0	0	40
11	198	87	14,061	12,660	617	0	0	30
12	200	86	13,784	11,666	617	0	0	20
13	207	92	12,665	10,547	617	0	0	50
14	212	98	12,725	10,607	617	0	0	50
15	211	98	12,327	10,209	616	0	0	50
16	215	106	13,415	11,297	616	0	0	60
17	203	95	13,552	12,040	617	0	0	30
18	182	76	13,922	13,922	617	0	0	27
19	188	83	13,704	12,990	617	0	0	7
20	184	84	13,855	13,141	617	0	0	0
21	188	84	13,878	13,164	617	0	0	0
22	175	74	14,425	14,297	617	0	0	0
23	172	71	15,335	15,335	617	0	0	30
24	187	85	14,440	14,440	617	0	0	30
25	186	87	14,324	14,324	617	0	0	30
26	184	88	13,932	13,932	617	0	0	30
27	196	93	12,346	12,346	599	0	0	30
28	200	93	10,296	10,296	595	0	0	70
29	195	88	9,115	9,115	617	0	0	70
30	202	98	11,029	11,029	596	0	0	70
31	193	90	12,356	12,356	601	0	0	70
Total	6,079	2,786	413,948	372,498	19,043	0	0	1,164

Table 10. Clifton Court Forebay

Daily Operation of Gates

August 2002

Date	Time								Amount of inflow in Acre-Feet
	Opened	Closed	Opened	Closed	Opened	Closed	Opened	Closed	
1	1:14	7:29	10:29	19:35					14,222
2	1:53	8:32	11:32	20:00					14,241
3	2:39	9:27	12:27	19:00					14,240
4	0:01	0:42	3:28	10:16	13:16	19:50			14,224
5	0:01	1:44	4:17	11:03	14:03	19:30			14,173
6	2:00	10:45	13:45	22:35					14,214
7	0:01	0:30	3:30	11:30	14:30	22:00			14,228
8	0:01	1:30	4:15	12:15	16:00	23:00			14,237
9	0:01	2:30	5:15	12:45	16:30	23:00			14,223
10	0:01	3:30	6:00	13:15	16:30	22:50			14,236
11	0:01	4:30	7:00	13:45	16:45	---			14,233
12	---	5:30	8:00	14:15	17:15	---			14,231
13	---	6:45	9:00	14:45	18:20	---			12,874
14	---	8:00	10:00	15:45	18:30	22:18			12,822
15	0:05	5:30	8:30	17:30	18:45	20:00			14,237
16	0:01	6:45	9:45	21:00					13,647
17	0:15	8:00	11:00	21:45					14,236
18	1:00	9:00	13:30	23:00					14,240
19	2:00	10:00	14:18	22:35					14,227
20	3:00	10:45	15:00	23:50					14,222
21	0:05	1:00	4:00	11:30	16:42	---			14,170
22	---	1:45	4:30	12:00	16:07	---			14,200
23	---	2:45	5:15	12:30	15:30	---			14,225
24	---	3:30	6:00	12:45	15:45	---			14,214
25	---	4:15	6:30	13:00	17:00	---			14,226
26	---	5:00	7:15	13:30	17:05	22:46			13,867
27	0:01	5:45	8:00	13:45	17:40	22:00			12,489
28	0:01	6:45	8:45	14:00	21:15	---			10,295
29	---	3:45	7:00	18:30	23:00	---			9,123
30	---	4:40	8:00	16:40					10,899
31	0:01	6:00	9:30	18:05					11,898
Total inflow for the month in AF:									420,813

Table 11. Governor Edmund G. Brown California Aqueduct
 Delta Field Division, Monthly Deliveries

(In acre-feet)

August 2002

Reach No.	Operating Pool		Turnout	Total Diversions	Deliveries					
	Beginning and Ending				Entitlement	USBR	Local	Loan Water	Dry Year Purchase	
	No.	Structure	Mile							
1	Banks Pumping Plant	3.32		413,948						
2A	1	South Bay Pumping Plant	4.49	Bethany Reservoir inlet	19,043	74	74	9	272	
		Check No. 1	5.95							
	2	Check No. 2	12.01							
	3		12.47	Musco Olive	74					
		Check No. 3	18.29							
	4		22.16	Tracy Golf & Country Club	0					
		Check No. 4	23.99							
	5	Check No. 5	29.73							
	6	Check No. 6	34.24							
	7		35.22	Turlock Fruit Company Inflow	0					
		Check No. 7	39.91							
2B	8		42.46	Oak Flat Water District-A	58	49				
			42.9	Western Hills WD	123	123				
			43.81	Oak Flat Water District-B	272				272	
			44.64	Oak Flat Water District-C	120	100			20	
		Check No. 8	45.97							
			46.18	Oak Flat Water District-D	83				83	
	9			Oak Flat Totals:	533	149	0	0	384	
		Check No. 9	51.3							
	10	Check No. 10	56.86							
	11	Check No. 11	61.4							
	12		66.14	Veteran's Cemetery	8		8			
		Check No. 12	66.71		371,879					

Table 12. South Bay Aqueduct
Delta Field Division, Monthly Deliveries

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending					Entitlement	General Wheeling	Local	Recreation		
	No.	Structure	Mile								
1	1	South Bay Pumping Plant	0.00	(into South Bay Aqueduct)	19,043	4	19	949			
			3.17		0						
			3.18		4						
		Check No. 1	3.91								
	2	Check No. 2	5.21								
2	3		7.21	Zone 7 Altamont	19	19	949				
		Check No. 3	9.49	Zone 7 Patterson Stored Exchange	0						
				Zone 7 Patterson Project Water	949						
4	4	Check No. 4	10.68			298	37	23	1,130		
		Check No. 5	12.29								
			13.55	Zone 7 Wente #1	298						
			14.16	Zone 7 Wente #2	37						
			14.31	Ising Project Water	23						
	6	Check No. 6	14.65			66	9	11	26		
			14.78	Zone 7 Arroyo Mocho	1,130						
		Check No. 7	16.38								
			16.57	Zone 7 Wente #3	0						
			16.70	Zone 7 Wente #4	66						
5	8			Zone 7 Norman Nursery	9	87	2,458	180	29		
				Zone 7 Concannon Project Water	11						
		Del Valle Branch Pipeline Junction	18.63	(Pumped into Lake Del Valle)	0						
				(Flow into South Bay Aqueduct)	1,164						
				Arroyo Valle #1 & #2 Project Water	0						
		Deliveries through Del Valle Branch Pipeline		Arroyo Valle #1 & #2 Stored Exchange	0						
				Lake Del Valle Recreation	26						
				Zone 7 Wente #5	87						
			19.20	So. Livermore Project	2,458						
			19.21	So. Livermore Inflow Released	0						
6				So. Livermore Stored Exchanged	0						
				Zone 7 - Kalthof Detjens	180						
		La Costa Tunnel	22.50	ACWD Vallecitos Inflow Release	29						
				ACWD Vallecitos Project Water	1,143						
			25.97	City of San Francisco San Antonio	0						
8	Mission Tunnel		ACWD - Bayside 1 & 2 Project Water:		2,613	2,613					
				Inflow Released	0						
9	Santa Clara Pipeline		Stored Exchange:		0	11,112					
				S.C.V.W.D. Meter	11,112						

Table 13. Lake Del Valle

Daily Operation

Capacity: 77,106 ac-ft

August 2002

Date	Water Surface Elevation (feet)	Storage	Storage Change	Inflow		Outflow					Precipitation (inches)
				Natural 1/	From South Bay Aqueduct	Arroyo Valle	South Bay Aqueduct	Recreation Deliveries 2/	Evaporation	Total Outflow	
Jul 31	700.00	37,827									
1	699.91	37,766	-61	3	0	0	50	0	14	64	0.00
2	699.85	37,725	-41	25	0	0	50	0	16	66	0.00
3	699.77	37,670	-55	8	0	0	50	0	13	63	0.00
4	699.71	37,629	-41	2	0	0	30	0	13	43	0.00
5	699.65	37,588	-41	3	0	0	30	0	14	44	0.00
6	699.52	37,493	-95	-39	0	0	40	1	15	56	0.00
7	699.43	37,439	-54	0	0	0	40	1	13	54	0.00
8	699.34	37,377	-62	-5	0	0	40	1	16	57	0.00
9	699.25	37,316	-61	-4	0	0	40	1	16	57	0.00
10	699.18	37,269	-47	11	0	0	40	1	17	58	0.00
11	699.14	37,242	-27	23	0	0	30	1	19	50	0.00
12	699.08	37,201	-41	-1	0	0	20	1	19	40	0.00
13	699.01	37,147	-54	15	0	0	50	1	18	69	0.00
14	698.92	37,086	-61	5	0	0	50	1	15	66	0.00
15	698.76	36,985	-101	-36	0	0	50	1	14	65	0.00
16	698.66	36,917	-68	7	0	0	60	1	14	75	0.00
17	698.61	36,884	-33	11	0	0	30	1	13	44	0.00
18	698.56	36,850	-34	5	0	0	27	1	11	39	0.00
19	698.54	36,836	-14	3	0	0	7	1	9	17	0.00
20	698.51	36,816	-20	-6	0	0	0	1	13	14	0.00
21	698.48	36,796	-20	-6	0	0	0	1	13	14	0.00
22	698.46	36,783	-13	1	0	0	0	1	13	14	0.00
23	698.41	36,749	-34	8	0	0	30	1	11	42	0.00
24	698.36	36,715	-34	7	0	0	30	1	10	41	0.00
25	698.32	36,682	-33	8	0	0	30	1	10	41	0.00
26	698.24	36,635	-47	-6	0	0	30	1	10	41	0.00
27	698.15	36,574	-61	-17	0	0	30	1	13	44	0.00
28	698.03	36,487	-87	-1	0	0	70	1	15	86	0.00
29	697.91	36,414	-73	12	0	0	70	1	14	85	0.00
30	697.79	36,334	-80	4	0	0	70	1	13	84	0.00
31	697.69	36,267	-67	17	0	0	70	1	13	84	0.00
Total				-1,560	57	0	0	1,164	26	427	1,617
0.00											

1/ Total inflow from stream gaging station above Lang Canyon and accretions/depletions.

2/ To East Bay Regional Park District.

NR=No Records

Table 14. Consolidated State-Federal O'Neill Forebay

Daily Operations

August 2002

United States
Department of the Interior
Bureau of Reclamation
Central Valley Project

State of California
The Resources Agency
Department of Water Resources
State Water Project

Date	Water Surface Elevation (in feet)	Storage (ac-ft)	Storage Change	Inflow (cfs)				Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)	
				Pump In 1/	O'Neill Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	California Aqueduct	O'Neill Pumping Generating Plant (Generation)	Gianelli Pumping Generating Plant (Pumped)	Dos Amigos Pumping Plant	Deliveries 2/		
Jul 31	223.73	53,001											
1	222.78	50,459	-2,542	0	450	0	6,954	0	1,173	7,769	28	284	
2	221.97	48,308	-2,151	0	414	1,096	5,822	0	756	7,741	24	105	
3	221.99	48,360	52	0	575	2,044	6,383	0	1,312	8,011	20	367	
4	220.64	44,818	-3,542	0	781	0	6,413	0	1,125	8,538	26	709	
5	223.02	51,100	6,282	0	759	3,049	6,095	0	0	7,522	23	809	
6	223.61	52,679	1,579	0	687	2,358	5,607	0	923	7,431	20	518	
7	222.72	50,299	-2,380	0	671	0	5,630	0	0	7,800	25	324	
8	222.08	48,597	-1,702	0	635	0	6,438	0	923	7,496	24	512	
9	221.95	48,255	-342	0	689	1,012	5,945	0	102	7,867	24	175	
10	222.57	49,900	1,645	0	799	2,024	6,434	0	907	7,785	27	291	
11	220.51	44,479	-5,421	0	911	0	6,302	0	2,426	7,892	26	398	
12	220.39	44,166	-313	0	791	272	6,309	0	800	7,113	24	407	
13	221.63	47,414	3,248	0	594	2,769	5,737	0	597	7,077	28	240	
14	221.34	46,653	-761	0	558	1,080	5,390	0	0	7,606	28	222	
15	221.30	46,547	-106	0	510	2,493	5,752	0	0	8,286	24	-498	
16	222.08	48,597	2,050	0	665	1,744	5,946	0	0	7,720	29	428	
17	221.65	47,467	-1,130	0	855	1,008	6,232	0	622	8,236	26	219	
18	219.24	41,196	-6,271	0	940	0	6,113	0	1,225	9,239	25	274	
19	220.36	44,088	2,892	0	1,185	1,014	6,364	0	403	6,968	20	286	
20	221.13	46,101	2,013	0	1,294	1,010	5,591	0	819	6,710	26	675	
21	222.42	49,501	3,400	0	1,277	1,003	6,240	0	723	6,342	24	283	
22	223.64	52,759	3,258	0	1,285	0	6,516	0	430	6,028	20	320	
23	223.14	51,420	-1,339	0	1,368	0	6,975	0	3,587	5,781	20	370	
24	222.60	49,980	-1,440	0	1,560	0	6,524	0	2,473	6,336	22	21	
25	221.62	47,388	-2,592	0	1,728	0	6,891	0	3,703	6,280	28	85	
26	221.94	48,229	841	0	1,784	0	6,694	0	2,178	5,609	28	-239	
27	223.12	51,367	3,138	0	1,651	0	5,904	0	820	4,866	20	-267	
28	223.04	51,153	-214	0	1,795	0	4,872	0	923	5,639	26	-187	
29	222.79	50,486	-667	0	1,906	0	4,265	0	1,640	5,172	28	333	
30	223.04	51,153	667	0	1,898	0	5,241	0	1,332	5,176	20	-275	
31	222.96	50,939	-214	0	1,983	0	5,907	0	2,460	5,782	26	270	
Total				-2,062	0	32,998	23,976	187,486	0	34,382	217,818	759	7,459
Mean cfs				---	0	1,064	773	6,048	0	1,109	7,026	24	241
Acre-feet				-2,062	0	65,449	47,559	371,879	0	68,198	432,044	1,506	14,799

1/ Pump-in located at Mile 79.67R.

2/ Includes 68 AF delivered to DFG at O'Neill Forebay and 20 AF to Parks and Recreation and 1,418 AF to SLWD.

Table 15. Consolidated State-Federal San Luis Reservoir

Daily Operations

August 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Capacity: 2,027,835 ac-ft

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)	Outflow (cfs)			Computed Losses (-) Gains (+) (cfs)
				Gianelli Pumping Generating Plant (Pumped)	Gianelli Pumping Generating Plant (Generation)	Pacheco Tunnel 1/	Parks and Rec. Del.	
Jul 31	414.97	646,887						
1	415.18	648,696	1,809	1,173	0	240	0	-21
2	414.98	646,973	-1,723	756	1,096	238	0	-291
3	414.74	644,908	-2,065	1,312	2,044	237	0	-72
4	414.95	646,715	1,807	1,125	0	240	0	26
5	414.19	640,185	-6,530	0	3,049	216	0	-27
6	413.65	635,561	-4,624	923	2,358	243	0	-653
7	413.58	634,963	-598	0	0	232	0	-69
8	413.68	635,818	855	923	0	240	0	-252
9	413.40	633,425	-2,393	102	1,012	246	0	-50
10	413.08	630,694	-2,731	907	2,024	238	0	-22
11	413.48	634,108	3,414	2,426	0	231	0	-474
12	413.57	634,877	769	800	272	181	0	41
13	413.02	630,182	-4,695	597	2,769	230	0	35
14	412.70	627,456	-2,726	0	1,080	247	0	-47
15	412.06	622,018	-5,438	0	2,493	271	0	22
16	411.56	617,782	-4,236	0	1,744	276	0	-116
17	411.38	616,260	-1,522	622	1,008	261	0	-120
18	411.52	617,444	1,184	1,225	0	254	0	-374
19	411.31	615,668	-1,776	403	1,014	227	0	-57
20	411.18	614,570	-1,098	819	1,010	255	0	-108
21	411.05	613,473	-1,097	723	1,003	245	0	-28
22	410.98	612,882	-591	430	0	282	0	-446
23	411.66	618,629	5,747	3,587	0	262	0	-428
24	412.09	622,273	3,644	2,473	0	202	0	-434
25	412.83	628,563	6,290	3,703	0	154	0	-378
26	413.25	632,144	3,581	2,178	0	206	0	-167
27	413.66	635,647	3,503	820	0	267	0	1,213
28	413.70	635,989	342	923	0	273	0	-478
29	413.97	638,300	2,311	1,640	0	284	0	-191
30	414.17	640,014	1,714	1,332	0	267	0	-201
31	414.62	643,876	3,862	2,460	0	452	1	-60
Total			-3,011	34,382	23,976	7,697	1	-4,227
Mean cfs			- - -	1,109	773	248	0	-136
Acre-feet			-3,011	68,198	47,559	15,271	2	-8,377

1/ Pacheco Tunnel, San Felipe Split; Santa Clara: 11,903 AF, San Benito: 3,368 AF.

Table 16. San Luis Field Division Plant Data

(in acre-feet)

August 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping - Generating Plant				San Felipe Project
	Total Pumping	SWP Pumping 1/ 2/	Total Generation	SWP Generation 1/ 2/	Total Pumping	SWP Pumping 1/ 2/	Federal
1	15,410	7,089	0	0	2,326	2,326	477
2	15,355	7,080	2,174	94	1,500	1,500	472
3	15,889	7,705	4,055	238	2,603	2,603	470
4	16,936	10,493	0	0	2,231	2,231	477
5	14,919	6,544	6,047	326	0	0	428
6	14,739	6,494	4,678	173	1,830	1,830	482
7	15,471	7,119	0	0	0	0	460
8	14,869	8,510	0	0	1,830	1,830	476
9	15,605	9,253	2,008	20	203	203	488
10	15,441	9,132	4,015	158	1,800	1,800	473
11	15,653	10,002	0	0	4,812	4,812	459
12	14,109	7,834	539	539	1,587	1,587	360
13	14,038	7,758	5,493	2,930	1,185	1,185	456
14	15,087	8,835	2,142	2,142	0	0	490
15	16,436	11,748	4,944	1,265	0	0	537
16	15,313	10,623	3,460	2,227	0	0	547
17	16,336	11,630	2,000	97	1,233	1,233	518
18	18,326	14,369	0	0	2,430	2,430	504
19	13,822	9,137	2,012	170	800	800	451
20	13,309	9,674	2,003	137	1,625	1,625	506
21	12,580	8,933	1,989	119	1,435	1,435	486
22	11,957	8,297	0	0	853	853	560
23	11,467	7,817	0	0	7,114	7,114	519
24	12,567	8,918	0	0	4,906	4,694	401
25	12,456	8,762	0	0	7,344	4,841	305
26	11,126	8,107	0	0	4,320	3,596	409
27	9,651	6,629	0	0	1,626	1,626	529
28	11,184	8,110	0	0	1,830	1,830	542
29	10,258	7,201	0	0	3,253	3,253	563
30	10,267	7,197	0	0	2,643	2,643	530
31	11,468	8,421	0	0	4,879	4,879	896
Total	432,044	269,421	47,559	10,635	68,198	64,759	15,271

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping;
adjustments to SWP water shares are made to balance the mismatch.

2/ Provisional, subject to change.

Table 17. Consolidated State-Federal Los Banos Reservoir

Daily Operations

August 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft)	Storage Change (ac-ft)	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft)
					Spill	Outlet	
Jul 31	325.52	19,520					
1	325.50	19,511	-9	0	0	0	-9
2	325.47	19,497	-14	0	0	0	-14
3	325.43	19,479	-18	0	0	0	-18
4	325.41	19,470	-9	0	0	0	-9
5	325.38	19,456	-14	0	0	0	-14
6	325.34	19,438	-18	0	0	0	-18
7	325.31	19,425	-13	0	0	0	-13
8	325.30	19,420	-5	0	0	0	-5
9	325.28	19,411	-9	0	0	0	-9
10	325.26	19,402	-9	0	0	0	-9
11	325.24	19,393	-9	0	0	0	-9
12	325.22	19,384	-9	0	0	0	-9
13	325.19	19,370	-14	0	0	0	-14
14	325.17	19,361	-9	0	0	0	-9
15	325.15	19,352	-9	0	0	0	-9
16	325.13	19,343	-9	0	0	0	-9
17	325.10	19,329	-14	0	0	0	-14
18	325.07	19,315	-14	0	0	0	-14
19	325.02	19,293	-22	0	0	0	-22
20	325.00	19,284	-9	0	0	0	-9
21	324.98	19,275	-9	0	0	0	-9
22	324.94	19,257	-18	0	0	0	-18
23	324.91	19,243	-14	0	0	0	-14
24	324.89	19,234	-9	0	0	0	-9
25	324.88	19,229	-5	0	0	0	-5
26	324.87	19,225	-4	0	0	0	-4
27	324.85	19,216	-9	0	0	0	-9
28	324.81	19,198	-18	0	0	0	-18
29	324.79	19,189	-9	0	0	0	-9
30	324.78	19,184	-5	0	0	0	-5
31	324.76	19,175	-9	0	0	0	-9
Total			-345	0	0	0	-345
Mean cfs			---	0	0	0	---
Acre-feet			-345	0	0	0	-345

Table 18. Consolidated State-Federal Little Panoche Reservoir

Daily Operations

August 2002

United States

Department of the Interior

Bureau of Reclamation

Central Valley Project

State of California

The Resources Agency

Department of Water Resources

State Water Project

Date	Water Surface Elev. (in feet)	Storage (ac-ft) 1/	Storage Change (ac-ft) 1/	Estimated Inflow (cfs)	Estimated Outflow (cfs)		Computed Losses (-) Gains (+) (ac-ft) 1/
					Spill	Outlet	
Jul 31	600.80	725					
1	Not Observed						
2	600.80	725	0	0	0	0	
3	Not Observed				0	0	
4	Not Observed				0	0	
5	Not Observed				0	0	
6	Not Observed				0	0	
7	Not Observed				0	0	
8	Not Observed				0	0	
9	600.70	720	-5	0	0	0	
10	Not Observed				0	0	
11	Not Observed				0	0	
12	Not Observed				0	0	
13	Not Observed				0	0	
14	Not Observed				0	0	
15	Not Observed				0	0	
16	Not Observed				0	0	
17	Not Observed				0	0	
18	Not Observed				0	0	
19	Not Observed				0	0	
20	Not Observed				0	0	
21	Not Observed				0	0	
22	Not Observed				0	0	
23	Not Observed				0	0	
24	Not Observed				0	0	
25	Not Observed				0	0	
26	Not Observed				0	0	
27	Not Observed				0	0	
28	Not Observed				0	0	
29	Not Observed				0	0	
30	600.50	711	-9	0	0	0	
31	600.50	711		0	0	0	
Total			-14	0	0	0	---
Mean cfs			---	0	0	0	---
Acre-feet			-14	0	0	0	-14

1/ Not available on a daily basis

Table 19a. Governor Edmund G. Brown California Aqueduct
San Luis Field Division, Monthly Deliveries

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			USBR	Transfer	DWR Recreation	USBR Recreation		
	No.	Structure	Mile								
2B	12	Check No. 12	66.71		371,879						
3A		San Luis Reservoir			Department of Parks and Recreation	2	11,903	1	1		
					San Felipe Division Santa Clara Water District	11,903					
					San Felipe Division San Benito Water District	3,368					
3	13	O'Neill Forebay	70.85		Department of Parks and Recreation	20		11	9		
					Cattle Program	0					
					Department of Fish & Game	68		37	31		
			70.91	Thru	San Luis Water District	1,418	1,418				
					(Floodwater Inflow)	0					
					Reach 3 Subtotal:	1,506	1,418	0			
			86.73					48	40		
						432,044					
4	14		89.03		San Luis Water District	6,507	6,507				
					Thru 94.06						
					89.66			1,276			
					Thru 89.67	Pacheco Water District					
					89.68	Panoche Water District		41			
			89.70		89.70	City of Dos Palos	166				
					Check No. 14	95.06					
	15		98.15		San Luis Water District	819	819				
					Thru 104.20			7,244			
					96.15	Panoche Water District					
			102.64		Thru 102.64	(Floodwater Inflow)	3				
					102.64	Broadview Water District					
			105.22		Thru 108.64	Westlands Water District	13,154	13,154			
			Check No.15	108.50							
			San Felipe Division Total:			15,271	15,271	0	0		
			Pacheco Water District Total:			1,276	1,276	0	0		
			Broadview Water District Total:			3	0	3	0		
			City of Dos Palos Total:			166	166	0	0		
			SLWD Reach 4 Subtotal:			7,326	7,326	0	0		
			Panoche Water District Total:			7,285	7,285	0	0		
			SLWD Total:			8,744	8,744	0	0		
			Westlands WD Reach 4 Subtotal:			13,154	0	13,154	0		

Table 19b. Governor Edmund G. Brown California Aqueduct

San Luis Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
		Beginning and Ending				USBR	Transfer	DWR Recreation	USBR Recreation				
	No.	Structure	Mile										
5	16		110.52	(Reverse flow, Kings River)	0	18,594	6,624	1					
			Thru	Westlands Water District	18,594								
			122.05	Department of Fish and Game	1								
		Check No. 16	122.07										
	17		124.18	Westlands Water District	10,575	3,951	3,000	1					
			Thru										
			132.74										
	Check No. 17	132.95				10,971	638						
	18		133.81	Westlands Water District	13,751								
			Thru										
			142.61										
		Pleasant Valley Pumping Plant	143.16	Westlands Water District	10,971								
			143.16	City of Coalinga	638								
	Check No. 18	143.23											
				Westlands WD Reach 5 Subtotal:	53,891	44,267	9,624	0	0				
6	19		145.26	Westlands Water District	21,991	21,991	0	0					
			Thru										
			151.19										
		Check No. 19	155.64										
				Westlands WD Reach 6 Subtotal:	21,991	21,991	0	0	0				
7	20		156.34	City of Huron	121	121	277	277					
			156.40	Westlands Water District	11,443								
			Thru										
			163.69										
	Check No. 20	164.69											
	21		164.79	City of Avenal	277	11,443	4,000	4,000					
			167.04	Westlands Water District	4,000								
			Thru										
			171.67										
	Check No. 21	172.40			326,519								
				Reach 7 Total:	15,841	15,841	0	0	0				
				Westlands WD Total:	104,479	81,701	22,778	0	0				
				City of Coalinga Total:	638	638	0	0	0				
				City of Huron Total:	121	121	0	0	0				
				City of Avenal Total:	277	277	0	0	0				
				Phase I Water Total:	0	0	0	0	0				
				Total San Luis Field Division Deliveries:	138,351	115,479	22,781	51	41				

Table 20. Consolidated State-Federal San Luis Canal 1/
Daily Operations
August 2002

United States
 Department of the Interior
 Bureau of Reclamation
 Central Valley Project

State of California
 The Resources Agency
 Department of Water Resources
 State Water Project

Date	Storage In Canal (ac-ft)	Storage Change (ac-ft)	Inflow (cfs)		Outflow (cfs)				Computed Losses (-) Gains (+) (cfs)
			Non- Project 2/	Dos Amigos Pumping Plant	Pools 14 & 15 3/	Pool 15	Pools 15 thru 21 4/	Flow Past Check 21	
Jul 31	30,533								
1	29,460	-1,073	0	7,769	142	118	1,784	5,951	-315
2	28,890	-570	0	7,741	144	117	1,887	5,809	-71
3	29,064	174	0	8,011	143	118	1,710	5,735	-217
4	29,531	467	0	8,538	141	117	1,751	6,083	-210
5	29,124	-407	0	7,522	142	119	1,774	5,294	-398
6	29,138	14	0	7,431	144	120	1,760	5,304	-96
7	29,521	383	0	7,800	142	119	1,762	5,443	-141
8	29,267	-254	0	7,496	143	119	1,901	5,482	21
9	29,090	-177	0	7,867	141	120	1,904	5,742	-49
10	29,145	55	0	7,785	144	119	1,793	5,572	-129
11	29,487	342	0	7,892	143	117	1,943	5,785	269
12	29,374	-113	0	7,113	142	119	1,812	5,103	6
13	28,340	-1,034	0	7,077	142	120	1,995	5,408	66
14	28,766	426	0	7,606	143	118	1,993	5,042	-95
15	28,816	50	0	8,286	143	117	1,785	6,030	-186
16	28,808	-8	0	7,720	144	118	1,985	5,560	83
17	28,456	-352	0	8,236	141	118	1,768	6,372	-14
18	28,965	509	0	9,239	142	117	1,697	7,429	402
19	28,804	-161	0	6,968	144	118	1,775	5,450	438
20	29,264	460	0	6,710	143	119	1,601	4,806	191
21	29,246	-18	0	6,342	144	117	1,605	4,851	366
22	29,277	31	0	6,028	142	118	1,455	4,511	214
23	29,094	-183	0	5,781	144	119	1,552	4,535	477
24	29,468	374	0	6,336	143	120	1,192	5,080	387
25	29,593	125	0	6,280	144	119	1,180	5,285	511
26	29,856	263	0	5,609	142	117	1,789	4,504	1,076
27	28,931	-925	0	4,866	143	118	1,453	4,356	738
28	29,366	435	0	5,639	143	119	1,358	4,371	571
29	28,714	-652	0	5,172	140	120	1,718	4,534	1,012
30	28,216	-498	0	5,176	142	119	1,554	4,542	930
31	29,083	867	0	5,782	140	120	1,962	4,646	1,523
Total		-1,450	0	217,818	4,420	3,673	53,198	164,618	7,360
Mean cfs		---	0	7,026	143	118	1,716	5,310	237
Acre-feet		-1,450	0	432,044	8,768	7,285	105,519	326,519	14,597

1/ San Luis Canal includes Pools 14 through 21 of the California Aqueduct.

2/ Pump In of Non-Project Water and Flood Water is included in the gain or loss.

3/ Includes 1,273 AF AG & 3 AF M&I to Pacheco W.D. and 166 AF to the City of Dos Palos.

4/ Includes 121 AF to the City of Huron, 277 AF to the City of Avenal, 638 AF to the City of Coalinga, 0 AF Phase I Water @ Lat. 13R, 1 AF to F&G @ WWD Lateral 4L, and 3 AF to Broadview W.D.

(in acre-feet)

Table 21. San Joaquin Field Division Plant Data**August 2002**

23

Date	Coastal Aqueduct					California Aqueduct			
	Las Perillas Pumping Plant	Badger Hill Pumping Plant	Devil's Den Pumping Plant	Bluestone Pumping Plant	Polonio Pass Pumping Plant	Buena Vista Pumping Plant	Teerink Pumping Plant	Chrisman Pumping Plant	Edmonston Pumping Plant
1	466	466	116	111	115	6,270	5,981	5,701	5,452
2	452	452	131	126	126	6,219	6,005	5,544	5,417
3	563	563	138	134	132	6,317	5,691	5,713	5,629
4	623	623	164	153	160	7,062	7,066	6,838	6,849
5	427	427	93	87	93	5,361	5,132	4,940	4,729
6	464	464	132	128	127	5,907	5,619	5,054	5,084
7	491	491	133	128	127	6,097	5,780	5,485	5,345
8	467	467	130	124	125	6,172	5,795	5,445	5,412
9	433	433	139	133	133	6,136	5,774	5,531	5,454
10	449	449	144	139	138	6,250	6,084	5,833	5,751
11	408	408	161	153	154	6,776	6,529	6,280	6,204
12	275	275	103	96	102	5,244	5,254	5,164	4,888
13	407	407	131	124	125	6,184	5,824	5,492	5,393
14	369	369	133	128	127	6,061	5,781	5,421	5,286
15	381	381	142	138	135	6,200	5,767	5,478	5,313
16	408	408	134	130	127	5,503	5,386	5,084	4,931
17	520	520	174	165	169	6,189	5,877	5,546	5,549
18	400	400	118	106	118	7,875	7,724	7,476	7,440
19	340	340	120	110	116	4,769	4,723	4,421	4,359
20	365	365	107	101	103	4,967	4,626	4,368	4,211
21	423	423	123	117	118	4,857	4,512	4,308	4,219
22	454	454	139	134	134	4,831	4,628	4,386	4,214
23	474	474	125	118	120	4,796	4,550	4,297	4,209
24	511	511	137	133	131	5,650	5,617	5,376	5,329
25	507	507	161	147	156	6,482	6,628	6,445	6,338
26	374	374	91	85	90	5,228	5,197	4,908	4,783
27	427	427	116	110	115	5,356	5,133	4,861	4,757
28	472	472	141	138	139	5,120	5,213	4,928	4,865
29	376	376	116	112	115	5,482	5,277	4,962	4,810
30	370	370	104	97	102	5,383	5,110	4,868	4,810
31	491	491	130	125	130	5,389	5,193	4,972	4,843
Total	13,587	13,587	4,026	3,830	3,902	180,133	173,476	165,125	161,873

Table 22a. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries										
	Beginning and Ending					Entitlement	USBR	Purchase Pool A	Purchase Pool B	Dry Year Purchase	Other					
	No.	Structure	Mile													
7	21	Check No. 21	172.40		326,519											
8C	22				Empire West Side Irrig. Dist. TL - A	0	500	181	192	1,109	3/ 529					
					County of Kings TL - A	500										
					TLBWS D - TL-A	181										
					175.18 DRWD - 1	529										
					177.54 DRWD - 1B	192										
					180.64 TLBWS D - C	0										
					180.65 DRWD - 1A	1,109										
					182.99 DRWD - 2	3,519										
					183.00 Tulare Lake Basin WSD TL - B	8,923										
					184.63 Coastal Branch	13,587										
31A	8D				184.78 Dudley Ridge Water Dist. DRWD - 3	2,871	788	156	479	4/ 7,500	1/ 1,484					
					Dudley Ridge Reach 8D Total:	8,220										
8D					Tulare Lake Basin WSD Total:	1,604	1,387					5,432				
					Check No. 22	184.82						0				
9	23			189.69 Kern County Water Agency	7,414	7,414	1,981	155	1,076	10,626	0					
				Lost Hills Water Dist. - 1							0					
				191.18 Kern County Water Agency	1,981						0					
				Lost Hills Water Dist. - 2							0					
				194.22 Kern County Water Agency	155						0					
				Lost Hills Water Dist. - 3							0					
10A	24				196.40 Kern County Water Agency	0	846	247	1,076	10,626	10,626	0				
					Berrenda Mesa - 2							0				
					196.75 Kern County Water Agency	1,076						0				
					Lost Hills Water Dist. - 4							0				
					K.C.W.A. Reach 9 Subtotal:	10,626						0				
10A	25				Check No. 23	197.05										
					201.24 Kern County Water Agency	846	846	247	1,076	10,626	10,626	0				
					Lost Hills Water Dist. - 7							0				
					202.05 Kern County Water Agency	247						0				
					Lost Hills Water Dist. - 5							0				
					204.69 Kern County Water Agency	0	1,931	1,096	6,232	14,014	14,014	0				
					Lost Hills Water Dist. - 6							0				
					Kern County Water Agency	0						0				
					Lost Hills Water Dist. - 8							0				
					Check No. 24	207.94										
					209.71 Kern County Water Agency	1,931	1,931	1,096	6,232	14,014	14,014	0				
					Belridge Water Storage Dist. - 1A							0				
					Kern National Wildlife Refuge	1,096						0				
					USBR BV-1B							0				
10A	25				209.78 Kern County Water Agency	419						0				
					Buena Vista WSD 1B							0				
					209.80 KCWA Semitropic WSD	13,232						0				
					KCWA Semitropic WSD Penstocks	14,014						0				
					USBR Total:	1,096						0				
10A	25				K.C.W.A. Reach 10A Subtotal:	30,689	23,689	0	0	0	7,000	7,000				

1/ Kern Water Bank Recovery.

2/ Water transferred from Kern Tulare Water Agency (3,500 AF) and Rag Gulch Water Agency (3,500 AF) to KCWA.

3/ Transfer of entitlement water from KCWA to DRWA.

4/ CVC Exchange water from Lower Tule River I. D.

Table 22b. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries							
	Beginning and Ending					Entitlement	Federal Wheeling	Purchase Pool A	Purchase Pool B	Dry Year Purchase	Other		
	No.	Structure	Mile										
11B	25		210.75	Kern County Water Agency Belridge - 2	0	670							
			214.11	Kern County Water Agency Belridge - 3	670								
			216.62	Kern County Water Agency Belridge - 4	0								
			217.13	Kern County Water Agency Belridge - 5	12,712	12,712							
				Kern County Water Agency Belridge - 5D	126								
		Check No. 25	217.79										
				K.C.W.A. Reach 11B Subtotal:	13,508	13,508	0	0	0	0	0		
12D	26		219.58	Kern County Water Agency Belridge - 6	0	120							
				Kern County Water Agency West Kern - 3	120								
		Check No. 26	224.92										
	27		230.37	Kern County Water Agency Buena Vista - 6	3,513	513					2/ 3,000		
12E	28		235.75	Kern County Water Agency Buena Vista - 2	7,705	1,159			73	1,546	2/ 5,000 2/ 9,128		
				Kern County WA CVC	20,188								
			238.04	DRWD CVC	0								
				Tulare Co.	0								
				Lower Tule River	0								
				Fresno Co.	0								
				Pixley ID	0								
				Hacienda									
				DWR Wells	0								
		Check No. 28	238.11										
				1/ Arvin Edison Total:	0	0	0	0	0	0	0		
				Reach 12E Subtotal:	31,406	12,620	0	39	73	1,546	17,128		
13B	29		238.19	Kern Water Bank Inflow	0	5,820			73	1,546	2/ 4,454		
				Kern Water Bank Outflow	0								
			241.02	Kern River Intertie (inflow)	0								
			242.85	KCWA Buena Vista WSD - 7	5,820								
				KCWA Buena Vista WSD - 5	1,077								
			243.09	Kern County Water Agency Buena Vista - 3	4,824	370			73	1,546	2/ 4,454		
			Check No. 29	Buena Vista WSD	0								
		30	249.85	Kern County Water Agency Buena Vista - 4	2,108								
				Buena Vista Pumping Plant	180,133								
				K.C.W.A. Reach 13B Subtotal:	13,829	9,375	0	0	0	0	4,454		
14A	31		254.47	Kern County Water Agency West Kern - 2	0	3							
			256.11	Kern County Water Agency Wheeler Ridge-Maricopa - 2	3								

1/ Arvin Edison Contractors include Rag Gulch WD, Kern-Tulare WD, Fresno County, Hills Valley ID, Tri Valley WD, Tulare County, Lower Tule River ID, and Pixley ID.

2/ Water transferred from Kern Tulare Water Agency (10,791 AF) and Rag Gulch Water Agency (10,791 AF) to KCWA.

Table 22c. Governor Edmund G. Brown California Aqueduct
San Joaquin Field Division, Monthly Deliveries (Continued)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Purchase Pool A	Purchase Pool B	Exchange	Other		
	No.	Structure	Mile									
14A	31	Check No. 31	256.14	Kern County Water Agency Wheeler Ridge-Maricopa - 3	86	86	1,226					
	32		258.61									
			260.44									
			Check No. 32		1,226							
				KCWA Reach 14A Subtotal:	1,315	1,315		0	0	0		
14B	33		264.42	Kern County Water Agency Wheeler Ridge-Maricopa - 5	3,622	3,622	791					
			266.91	Kern County Water Agency Wheeler Ridge-Maricopa - 6	791							
			Check No. 33	267.36								
	34		270.24	Kern County Water Agency Wheeler Ridge-Maricopa - 7	3,289	3,289						
			Check No. 34	271.27								
				Reach 14B Total:	7,702	7,702		0	0	0		
14C	35		272.39	Kern County Water Agency Wheeler Ridge-Maricopa - 8	1,946	1,946	822	219	412			
			276.09	Kern County Water Agency Wheeler Ridge-Maricopa - 9	822							
			277.31	Kern County Water Agency Arvin-Edison	1,578		947	219	412			
				Reach 14C Total:	4,346		947	219	412	0		
	Teerink Pumping Plant		278.13		173,476							
15A	36		279.02	Kern County Water Agency Wheeler Ridge-Maricopa - 9A	585	585	3,945	0	0			
			280.06	Kern County Water Agency Wheeler Ridge-Maricopa - 10	3,945							
				Reach 15-A Total:	4,530		4,530	219	412	0		
	Chrisman Pumping Plant		280.36		165,125							
	37		282.06	Kern County Water Agency Wheeler Ridge-Maricopa - 11	0							
			Check No. 37	283.95								
16A	38		285.01	Kern County Water Agency Wheeler Ridge-Maricopa - 12	24	24	71	0	0			
			286.39	Kern County Water Agency Wheeler Ridge-Maricopa - 13A	71							
			287.06	Kern County Water Agency Wheeler Ridge-Maricopa - 13	0							
	Check No. 38		287.09									
	39		287.62	Kern County Water Agency Wheeler Ridge-Maricopa - 13B	73		73	0	0			
			Check No. 39	290.21								
	40		291.26	Kern County Water Agency Wheeler Ridge-Maricopa - 14	924	924	491	0	0			
			293.07	Kern County Water Agency Wheeler Ridge-Maricopa - 15	491							
				Kern County Water Agency Tehachapi Cummings CWD	1,246		1,246	2,829	0			
				K.C.W.A. Reach 16A Subtotal:	2,829		1,246	2,829	0	0		
17E	Edmonston Pumping Plant		293.45		161,873							

Table 23. Governor Edmund G. Brown California Aqueduct

San Joaquin Field Division, Monthly Deliveries (Coastal Branch)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries					
	Beginning and Ending		No.			Entitlement	Purchase Pool A	Purchase Pool B	Dry Year Purchase	Other 1/	
	No.	Structure	Mile								
31A	C-1	Coastal Branch Control	0.02		13,587	1,341					
		Las Perillas Pumping Plant	1.16		13,587						
	C-2		3.79	Green Valley Water District	0						
		Badger Hill Pumping Plant	4.27		13,587						
	C-3	Coastal Check No. 3	7.21								
	C-4		9.34	Castaic Lake WA (Devil's Den WD #1)	0						
		Coastal Check No. 4	9.34								
	C-5	Coastal Check No. 5	12.20								
			13.30	Kern County Water Agency Berrenda Mesa - 3	1,341						
	C-6		14.83	Kern County Water Agency Berrenda Mesa 1	8,203						
		Devil's Den Pumping Plant	14.86	Kern County Water Agency Berrenda Mesa - PO	0						
				K.C.W.A. Reach 31A Subtotal:	9,544	9,544	0	0	0	0	
				K.C.W.A. Total:	130,444	99,573	258	485	1,546	28,582	
33A	C-7	Bluestone Pumping Plant	19.05		3,830	3,288					
	C-8	Polonio Pass Pumping Plant	26.54		3,902						
	C-9	Tank Site 1	27.81	(CCWA) Polonio Pass Treatment Plant							
	C-10	Shandon T.O.	38.23	Santa Barbara County (CCWA)	3,288						
		Tank Site 2	58.63	Central Coast:	0						
34	C-11	Chorro Valley T.O.	69.31	San Luis Obispo County (CCWA)	451	451					
		Energy Dissipater	78.12								
35	C-12	Lopez T.O.	85.86	SLOCFC & WCD	0	3,739					
				CCWA Total:	3,739		0	0	0	0	
		Guadalupe T.O.	102.70	SBCFC & WCD	0						
		Santa Maria T.O.	107.43	SBCFC & WCD	0						
38		So. Cal. Water T.O.	109.20	SBCFC & WCD	0						
				SBCFC & WCD Total:	0		0	0	0	0	
		Tank Site 5	115.42								

1/ Transfer of 28,582 AF of CVC water from Kern Tulare WA (14,291 AF) and Rag Gulch WA (14,291 AF) to KCWA.

Table 24. Southern Field Division Plant Data

(in acre-feet)

August 2002

Date	West Branch					East Branch								Devil Canyon Powerplant Generation
	Oso Pumping Plant	Warne Powerplant		Castaic Powerplant		Alamo Powerplant			Pearblossom Pumping Plant	Mojave Siphon Powerplant				
		Generation	Leakage	Generation	Pumpback	Generation	Bypass Through Plant	Cottonwood Chute		Generation	Leakage	Bypass Flume		
1	2,029	2,157	0	5,881	3,213	3,071	0	325	2,764	2,998	0	0	2,890	
2	2,058	1,892	0	6,169	3,030	2,934	0	299	2,572	2,621	0	0	2,884	
3	2,615	2,297	0	1,070	2,783	2,878	0	231	2,649	2,888	0	0	2,848	
4	2,664	1,847	0	1,954	4,344	3,676	0	460	3,342	2,886	0	0	3,002	
5	1,282	1,931	0	5,086	4,128	3,242	0	184	2,890	3,348	0	0	2,937	
6	1,964	2,568	0	6,034	2,678	2,687	0	277	2,898	3,124	0	0	2,688	
7	2,348	2,043	0	6,429	2,987	3,000	0	0	2,665	2,694	0	0	2,891	
8	2,250	2,065	0	6,356	2,690	2,998	0	114	2,543	2,672	0	0	2,887	
9	2,113	2,147	0	8,568	1,288	2,986	0	318	2,639	2,581	0	0	3,106	
10	2,195	2,056	0	3,100	3,572	3,232	0	288	3,052	3,213	0	0	2,669	
11	2,242	2,015	0	678	5,056	3,651	0	210	3,342	3,450	0	0	2,842	
12	2,136	2,159	0	5,902	3,532	2,643	0	46	2,495	2,441	0	0	2,873	
13	1,823	2,209	0	5,951	1,392	3,121	0	404	2,848	3,068	0	0	2,727	
14	2,201	2,106	0	6,146	2,467	2,724	0	253	2,594	2,617	0	0	2,903	
15	1,963	2,044	0	4,383	623	3,039	0	320	2,654	2,754	0	0	2,835	
16	1,873	1,985	0	4,389	1,757	2,681	0	331	2,653	2,758	0	0	2,890	
17	2,523	2,024	0	2,246	3,585	2,701	0	268	2,556	2,793	0	0	2,846	
18	3,391	2,010	0	242	1,852	3,707	0	227	3,341	2,800	0	0	2,810	
19	1,179	2,397	0	4,993	3,033	2,910	0	269	2,858	3,182	0	0	2,881	
20	1,279	1,340	0	4,265	3,056	2,718	0	366	2,449	2,436	0	0	2,813	
21	1,448	1,424	0	2,746	2,791	2,695	0	108	2,687	2,696	0	0	2,901	
22	1,077	1,341	0	6,673	1,353	2,829	0	274	2,596	2,727	0	0	2,761	
23	1,173	1,297	0	7,194	1,056	2,719	0	287	2,920	2,578	0	0	2,864	
24	1,923	2,070	0	261	2,970	2,948	0	380	2,986	3,165	0	0	2,859	
25	2,892	1,439	0	350	4,853	3,176	0	189	2,949	2,849	0	0	2,866	
26	1,752	1,997	0	5,251	1,935	2,752	0	236	2,818	2,776	0	0	2,610	
27	1,738	2,021	0	6,834	1,307	2,803	0	190	2,621	2,749	0	0	2,597	
28	1,759	2,027	0	5,594	1,838	3,104	0	0	2,671	2,619	0	0	2,588	
29	1,759	1,991	0	5,514	1,839	3,060	0	0	2,635	2,743	0	0	2,543	
30	1,759	2,066	0	4,527	1,819	3,023	0	0	2,517	2,571	0	0	2,845	
31	1,759	2,022	0	2,974	3,353	3,043	0	0	2,645	2,677	0	0	2,599	
Total	61,167	60,987	0	137,760	82,180	92,751	0	6,854	85,849	87,474	0	0	87,255	

Table 25. Pyramid Lake
Daily Operation

Capacity: 171,200 ac-ft				(in acre-feet except as noted)				August 2002		
Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow			Computed Losses (-) And Gains (+)
				Project		Natural	Project		Natural	
				Castaic Powerplant Pumpback	Warne Powerplant	Stream Flow	Castaic Powerplant Generation	Deliveries 1/	To Piru Creek	
Jul 31	2569.21	158,800								
1	2568.69	158,159	-641	3,213	2,157	8	5,881	19	50	-69
2	2567.56	156,771	-1,388	3,030	1,892	8	6,169	19	50	-80
3	2570.70	160,648	3,877	2,783	2,297	8	1,070	20	50	-71
4	2573.95	164,725	4,078	4,344	1,847	8	1,954	20	50	-97
5	2574.56	165,498	773	4,128	1,931	8	5,086	20	50	-138
6	2573.80	164,535	-963	2,678	2,568	9	6,034	20	50	-114
7	2572.55	162,960	-1,575	2,987	2,043	8	6,429	20	50	-114
8	2570.98	160,996	-1,964	2,690	2,065	8	6,356	20	50	-301
9	2566.69	155,707	-5,289	1,288	2,147	8	8,568	20	50	-94
10	2568.59	158,036	2,328	3,572	2,056	8	3,100	20	50	-138
11	2573.69	164,396	6,361	5,056	2,015	7	678	20	50	31
12	2573.36	163,980	-417	3,532	2,159	7	5,902	20	50	-143
13	2571.33	161,433	-2,547	1,392	2,209	7	5,951	21	50	-133
14	2570.05	159,840	-1,593	2,467	2,106	7	6,146	20	50	43
15	2568.53	157,962	-1,878	623	2,044	7	4,383	20	50	-99
16	2567.97	157,274	-688	1,757	1,985	8	4,389	20	49	20
17	2570.56	160,473	3,200	3,585	2,024	8	2,246	20	49	-102
18	2573.36	163,980	3,506	1,852	2,010	10	242	20	49	-55
19	2573.59	164,270	290	3,033	2,397	11	4,993	20	49	-89
20	2573.58	164,258	-13	3,056	1,340	10	4,265	20	49	-85
21	2574.61	165,561	1,304	2,791	1,424	8	2,746	20	49	-104
22	2571.39	161,508	-4,054	1,353	1,341	9	6,673	20	49	-15
23	2567.38	156,550	-4,957	1,056	1,297	9	7,194	20	49	-56
24	2571.19	161,258	4,708	2,970	2,070	9	261	20	49	-11
25	2575.76	167,025	5,767	4,853	1,439	9	350	21	49	-114
26	2574.75	165,739	-1,286	1,935	1,997	9	5,251	20	49	93
27	2571.84	162,070	-3,669	1,307	2,021	8	6,834	20	49	-102
28	2570.38	160,250	-1,821	1,838	2,027	8	5,594	20	49	-31
29	2568.93	158,455	-1,795	1,839	1,991	7	5,514	20	49	-49
30	2568.22	157,581	-874	1,819	2,066	7	4,527	20	49	-170
31	2570.15	159,964	2,383	3,353	2,022	7	2,974	20	49	44
Total				1,164	82,180	60,987	253	137,760	620	1,534
										-2,342

1/ Includes 2 AF recreation and 618 AF entitlement to United Water Conservation District.

Table 26. Elderberry Forebay

Daily Operation

(in acre-feet except as noted)

Capacity: 32,476 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow			Computed Losses (-) And Gains (+)	
				Castaic Powerplant Generation	Natural	Castaic Powerplant Pumpback	To Castaic Lake			
							Natural	Project		
Jul 31	1525.21	25,509								
1	1525.71	25,731	222	5,881	0	3,213	0	2,446	0	
2	1526.77	26,206	475	6,169	0	3,030	0	2,663	-1	
3	1517.00	21,980	-4,226	1,070	0	2,783	0	2,513	0	
4	1511.20	19,649	-2,331	1,954	0	4,344	0	0	59	
5	1513.86	20,700	1,051	5,086	0	4,128	0	0	93	
6	1516.27	21,679	979	6,034	0	2,678	0	2,376	-1	
7	1517.24	22,079	400	6,429	0	2,987	0	3,041	-1	
8	1519.66	23,096	1,017	6,356	0	2,690	0	2,650	1	
9	1529.93	27,649	4,553	8,568	0	1,288	0	2,728	1	
10	1522.55	24,339	-3,310	3,100	0	3,572	0	2,837	-1	
11	1512.19	20,037	-4,302	678	0	5,056	0	0	76	
12	1518.09	22,434	2,397	5,902	0	3,532	0	0	27	
13	1522.05	24,122	1,688	5,951	0	1,392	0	2,871	0	
14	1523.74	24,859	737	6,146	0	2,467	0	2,941	-1	
15	1526.68	26,166	1,307	4,383	0	623	0	2,452	-1	
16	1525.90	25,816	-350	4,389	0	1,757	0	2,983	1	
17	1516.35	21,712	-4,104	2,246	0	3,585	0	2,765	0	
18	1513.01	20,361	-1,351	242	0	1,852	0	0	259	
19	1517.32	22,113	1,752	4,993	0	3,033	0	0	-208	
20	1516.89	21,934	-179	4,265	0	3,056	0	1,387	-1	
21	1512.96	20,341	-1,593	2,746	0	2,791	0	1,584	36	
22	1518.65	22,669	2,328	6,673	0	1,353	0	2,993	1	
23	1527.59	26,577	3,908	7,194	0	1,056	0	2,230	0	
24	1521.56	23,910	-2,667	261	0	2,970	0	0	42	
25	1510.78	19,486	-4,424	350	0	4,853	0	0	79	
26	1512.07	19,989	503	5,251	0	1,935	0	2,813	0	
27	1518.36	22,547	2,558	6,834	0	1,307	0	2,969	0	
28	1526.77	26,206	3,659	5,594	0	1,838	0	0	-97	
29	1528.21	26,859	653	5,514	0	1,839	0	3,024	2	
30	1527.48	26,527	-332	4,527	0	1,819	0	3,039	-1	
31	1519.86	23,181	-3,346	2,974		3,353	0	2,967	0	
Total				-2,328	137,760	0	82,180	0	58,272	
									364	

Table 27. Castaic Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 323,699 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow		Outflow		Computed Losses (-) And Gains (+)	
				From Elderberry Forebay		Natural	Deliveries		
				Natural	Project				
Jul 31	1511.31	315,513							
1	1511.44	315,799	286	0	2,446	0	2,071	0	-89
2	1511.77	316,527	728	0	2,663	0	1,880	0	-55
3	1512.06	317,167	640	0	2,513	0	1,809	0	-64
4	1511.25	315,381	-1,786	0	0	0	1,772	0	-14
5	1510.40	313,513	-1,868	0	0	0	1,794	0	-74
6	1510.64	314,040	527	0	2,376	0	1,823	0	-26
7	1511.18	315,227	1,187	0	3,041	0	1,838	0	-16
8	1511.61	316,174	947	0	2,650	0	1,841	0	138
9	1511.91	316,836	662	0	2,728	0	1,845	0	-221
10	1512.31	317,719	883	0	2,837	0	1,961	0	7
11	1511.46	315,843	-1,876	0	0	0	1,855	0	-21
12	1510.62	313,996	-1,847	0	0	0	1,790	0	-57
13	1511.01	314,853	857	0	2,871	0	1,938	0	-76
14	1511.40	315,711	858	0	2,941	0	1,962	0	-121
15	1511.61	316,174	463	0	2,452	0	1,882	0	-107
16	1511.95	316,924	750	0	2,983	0	1,793	0	-440
17	1512.55	318,250	1,326	0	2,765	0	1,732	0	293
18	1511.85	316,703	-1,547	0	0	0	1,593	0	46
19	1511.13	315,117	-1,586	0	0	0	1,563	0	-23
20	1511.01	314,853	-264	0	1,387	0	1,542	0	-109
21	1510.98	314,787	-66	0	1,584	0	1,591	0	-59
22	1511.52	315,975	1,188	0	2,993	0	1,690	0	-115
23	1511.61	316,174	199	0	2,230	0	1,867	0	-164
24	1510.71	314,193	-1,981	0	0	0	2,026	0	45
25	1509.78	312,155	-2,038	0	0	0	1,970	0	-68
26	1510.09	312,833	678	0	2,813	0	1,918	0	-217
27	1510.43	313,579	746	0	2,969	0	1,941	0	-282
28	1509.47	311,477	-2,102	0	0	0	2,085	95	78
29	1509.86	312,330	853	0	3,024	0	1,938	98	-135
30	1510.40	313,513	1,183	0	3,039	0	1,806	98	48
31	1510.88	314,567	1,054	0	2,967	0	1,878	0	-35
Total			-946	0	58,272	0	56,994	291	-1,933

Table 28. Governor Edmund G. Brown California Aqueduct

Southern Field Division, Monthly Deliveries (West Branch)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitle-ment	Rec.	Local	Purchase Pool A	Flexible Storage Withdrawal		
	No.	Structure	Mile									
29A	42	Oso Pumping Plant	1.49		61,167							
29F	W2	Quail Lake	5.02	Antelope Valley-East Kern Water Agency	Re-moved	618	2					
		Quail Lake Embankment	7.82	Antelope Valley-East Kern Water Agency	Stub							
29G		Warne Power Plant	14.07		60,987							
29H	W3	Pyramid Lake		Calif. State Park Pyramid Recreation	2	618	31					
			14.10	United Water Conservation Dist.	618							
		Pyramid Dam	17.10	Piru Creek Fish Enhancement	0							
		Castaic Power Plant	25.82	(82,180 AF pumpback)	137,760							
29J	W4	Elderberry Forebay				12,133	31					
		Forebay Dam	28.12									
30 1/	W5	Castaic Lake		Calif. State Park Castaic Lake Recreation	31	12,133	31					
		Castaic Dam	31.47									
		Castaic Lake Outlet	31.55	MWD - 78"	12,133							
				MWD - 132"	39,625							
				Castaic Lake WA - T1	2,076							
				Castaic Lake WA	2,975							
				United Water Conservation Dist.	0							
				MWD - Ventura County FCD	154							
				LA Co. Parks & Recreation	0							
				Releases to Lagoon	291							
				Reach 30 Subtotal:	56,994	56,963	31	0	0	0		
	W6	Castaic Lagoon		Recreation to Lagoon	291		291					
		Castaic Lagoon Outlet	31.87									

1/ Reach 30 actually terminates at mile 31.50. It is shown here as including the outlet works at mile 31.55.

All deliveries from the outlet works and from the Lagoon are billed to Reach 30.

Table 29. Silverwood Lake

Daily Operation

(in acre-feet except as noted)

Capacity: 74,970 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow			Outflow					Computed Losses (-) And Gains (+)	Las Flores Ranch Exchange 1/	
							Delivered to CLAWA	Rec.	San Bernardino Tunnel	Del. To Mojave W.A.	Natural To Mojave River			
Jul 31	3352.32	72,379												
1	3352.57	72,619	240	2,998	0	0	11	0	2,890	0	0	143	0	
2	3352.30	72,360	-259	2,621	0	0	11	1	2,884	0	0	16	0	
3	3352.16	72,226	-134	2,888	0	0	12	0	2,848	0	1	-161	0	
4	3352.13	72,197	-29	2,886	0	0	12	1	3,002	0	0	100	0	
5	3352.42	72,475	278	3,348	0	0	11	0	2,937	0	0	-122	0	
6	3352.95	72,983	509	3,124	0	0	9	1	2,688	0	1	84	0	
7	3352.67	72,714	-269	2,694	0	0	10	0	2,891	0	0	-62	0	
8	3352.46	72,513	-201	2,672	0	0	9	1	2,887	0	0	24	0	
9	3351.98	72,054	-459	2,581	0	0	9	0	3,106	0	1	76	0	
10	3352.42	72,475	421	3,213	0	0	11	1	2,669	0	0	-111	0	
11	3353.07	73,099	624	3,450	0	0	9	0	2,842	0	0	25	0	
12	3352.64	72,686	-413	2,441	0	0	10	1	2,873	0	1	31	0	
13	3352.93	72,961	276	3,068	0	0	11	0	2,727	0	1	-53	0	
14	3352.72	72,762	-199	2,617	0	0	9	0	2,903	0	0	96	0	
15	3352.61	72,657	-106	2,754	0	0	0	0	2,835	0	1	-24	0	
16	3352.46	72,513	-144	2,758	0	0	10	1	2,890	0	0	-1	0	
17	3352.42	72,475	-38	2,793	0	0	10	0	2,846	0	0	25	0	
18	3352.34	72,398	-77	2,800	0	0	10	0	2,810	0	1	-56	0	
19	3352.63	72,676	278	3,182	0	0	11	0	2,881	0	0	-12	0	
20	3352.22	72,283	-393	2,436	0	0	10	1	2,813	0	0	-5	0	
21	3351.99	72,063	-220	2,696	0	0	11	0	2,901	0	1	-3	0	
22	3351.88	71,958	-105	2,727	0	0	11	1	2,761	0	0	-59	0	
23	3351.56	71,653	-305	2,578	0	0	11	0	2,864	0	0	-8	0	
24	3351.83	71,911	257	3,165	0	0	9	1	2,859	0	1	-38	0	
25	3351.81	71,892	-19	2,849	0	0	10	0	2,866	0	0	8	0	
26	3352.01	72,083	191	2,776	0	0	10	0	2,610	0	0	35	0	
27	3352.10	72,169	86	2,749	0	0	7	1	2,597	0	1	-57	0	
28	3352.09	72,159	-10	2,619	0	0	8	0	2,588	0	0	-33	0	
29	3352.29	72,350	191	2,743	0	0	8	0	2,543	0	0	-1	0	
30	3351.99	72,063	-287	2,571	0	0	8	1	2,845	0	1	-3	0	
31	3352.14	72,207	143	2,677	0	0	8	0	2,599	0	0	73	0	
Total				-172	87,474	0	0	296	12	87,255	0	11	-72	0

1/ Project water delivered from Mojave Siphon in exchange for like amount of Natural Streamflow.

Table 30. Lake Perris

Daily Operation

(in acre-feet except as noted)

Capacity: 131,452 ac-ft

August 2002

Date	Water Surface Elevation (in feet)	Storage	Storage Change	Inflow 1/	Outflow 2/	Computed Losses (-) Gains (+) 1/
Jul 31	1583.18	115,977				
1	1583.23	116,088	111		11	
2	1583.21	116,044	-44		11	
3	1583.28	116,199	155		10	
4	1583.27	116,177	-22		10	
5	1583.28	116,199	22		11	
6	1583.21	116,044	-155		11	
7	1583.20	116,021	-23		11	
8	1583.26	116,154	133		10	
9	1583.33	116,310	156		10	
10	1583.23	116,088	-222		11	
11	1583.23	116,088	0		11	
12	1583.24	116,110	22		10	
13	1583.26	116,154	44		11	
14	1583.24	116,110	-44		11	
15	1583.28	116,184	74		11	
16	1583.30	116,243	59		10	
17	1583.26	116,154	-89		10	
18	1583.32	116,287	133		11	
19	1583.28	116,199	-88		11	
20	1583.26	116,154	-45		10	
21	1583.23	116,088	-66		11	
22	1583.25	116,132	44		10	
23	1583.25	116,132	0		12	
24	1583.26	116,154	22		11	
25	1583.22	116,066	-88		12	
26	1583.28	116,199	133		10	
27	1583.28	116,199	0		12	
28	1583.25	116,132	-67		11	
29	1583.19	115,999	-133		12	
30	1583.15	115,911	-88		11	
31	1583.12	115,844	-67		12	
Total			-133	2,291	336	-2,088

1/ Readings are not taken on a daily basis. End of month only.

2/ Includes deliveries to MWD from Reach 28J and recreation water to California State Park at lake Perris.

Table 31a. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Rec.	Transfer 1/	Purchase Pool B	Dry Year Purchase		
	No.	Structure	Mile									
17E	40	Edmonston Pumping Plant	293.45		161,873							
	41		298.65		Kern County Water Agency Tej.-Cas		Stub					
17F		Check No. 41	303.41									
18A	42	Check No. 42	304.99									
19	43	Alamo Powerplant	305.73	(Does not include 6,854 AF flow down Cottonwood Chute)		92,751	52	2,271	2,323	0		
			308.05	Antelope Valley-East Kern WA		52						
		Check No. 43	309.70									
	44		311.84	LADWP Connection		0						
			313.50	AVEK 245th Street West		0						
	Check No. 44		314.81									
	45		314.93	AVEK 235th Street West		0						
			315.57	AVEK 225th Street West		0						
	Check No. 45		319.74									
	46		323.19	Antelope Valley-East Kern WA Fairmont		2,271						
		Check No. 46	323.84									
				Reach 19 Total:	2,271							
20A	47	Check No. 47	326.77				62	4,775	233	2,446		
	48		326.91	Antelope Valley-East Kern WA Willow Springs Siphon		62						
			329.65	Antelope Valley-East Kern WA 120th Street West		Removed						
		Check No. 48	330.82									
	49	Check No. 49	335.93									
	50		336.73	AVEK WA - Quartz Hill (Wheeled for Palmdale WD)		0						
				Antelope Valley-East Kern WA		4,775						
			339.68	Antelope Valley-East Kern WA		0						
20B	Check No. 50		341.51				55	631	0	55		
	51	Check No. 51	342.07									
	52		342.80	Antelope Valley-East Kern WA 30th Street West		Not in Use						
		Check No. 52	343.74									
	53		346.98	PWD Palmdale		2,446						
			348.14	Antelope Valley-East Kern WA Acton Treatment Plant		233						
21	Check No. 53		348.17				50	631	0	50		
	54	Check No. 54	350.25									
	55	Check No. 55	352.70									
	56	Check No. 56	354.76									
			354.97	Littlerock Creek I.D.		0						
22A	57	Check No. 57	356.93				55	631	0	55		
	58		357.60	Antelope Valley-East Kern WA		55						
			357.72	Antelope Valley-East Kern WA 96th Street East		50						
			359.82	Antelope Valley-East Kern WA East Side Treatment Plant		631						

1/ AVEK transferred this water to Mojave Water Agency.

Table 31b. Governor Edmund G. Brown California Aqueduct
 Southern Field Division, Monthly Deliveries (East Branch, Continued)

(In acre-feet)

August 2002

Reach No.	Operating Pool			Turnout	Total Diversions	Deliveries						
	Beginning and Ending					Entitlement	Recreation	Ex-change	Purchase Pool A	Flexible Storage Withdrawal		
	No.	Structure	Mile									
22B	58	Pearblossom Pumping Plant	360.61		85,849	165				0		
	59	Check No. 59	366.09									
			366.50		Antelope Valley-East Kern WA Temporary		165					
	60	Check No. 60	373.94									
	61	Check No. 61	379.00									
	62	Check No. 62	384.26									
	63	Check No. 63	389.20		Mojave Water Agency Mojave River		0					
	64	Check No. 64	395.10									
	65	Check No. 65	400.32									
	66		401.10		Mojave Water Agency Morongo 24" and 42"		0					
					Mojave Water Agency Hesperia		0					
23	Check No. 66		403.41									
	Mojave Siphon		405.48		Las Flores Ranch		0			0		
24	Mojave Siphon Powerplant		405.65				87,474					
	Silverwood Lake	407.65			Crestline Lake Arrowhead Water Agency		296	296		12		
25	San Bernardino Tunnel		411.46		Calif. State Park Silverwood Agency (Rec.)		12					
							87,255					
26A	Devil Canyon Powerplant	412.73			San Gorgonio Pass Water Agency		0					
	Devil Canyon Afterbay Control Structures	412.88			MWD-SC Rialto		87,255	28,576	14,335			
					Desert Water Agency (MWD Wheeling Exchange)		2,905					
					San Gabriel Valley Water District		2,486					
					Coachella Valley WD (MWD Wheeling Exchange)		1,763					
					San Bernardino Valley MWD 24" and 72"		3,338					
					San Bernardino Valley MWD 48"		0					
					MWD (SBVMWD Exchange)		0					
28G	Santa Ana Valley Pipeline	425.46										
28H		433.06			MWD-SC Box Springs		10,429	10,429				
		440.05			MWD-SC Perris Bypass Pipeline		21,953					
28J	Lake Perris	442.00			MWD-SC 18"		284	21,953	284			
		443.44			MWD-SC 54"		0					
					MWD-SC 78"		0					
					Calif. State Park Lake Perris Recreation		52					
					MWD Total:	134,233	119,898	0	0	14,335		
										0		

Table 32. Water Quality At Selected SWP Locations

August 2002

Constituent	Units	Thermalito Afterbay At Outlet	North Bay Aqueduct Barker Slough Pumping Plant	Banks Pumping Plant	Delta Mendota Canal At McCabe Rd.	California Aqueduct				Devil Canyon Afterbay Near San Bernardino
						O'Neill Forebay Outlet (Check 13)	Kettleman City (Check 21)	Near Hwy 119 (Check 29)	Tehachapi Afterbay (Check 41)	
Alkalinity	mg/l as CaCO ₃	44	79	66	70	69	65	71	69	76
Antimony	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	NR	NR
Arsenic	mg/l	<0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.002
Beryllium	mg/l	NR	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Boron	mg/l	<0.1	<0.1	<0.1	0.1	0.1	0.1	0.1	0.1	0.1
Bromide	mg/l	NR	0.03	0.37	0.30	0.33	0.29	0.30	0.31	0.24
Calcium	mg/l	9	14	16	17	17	17	17	17	19
Carbon - Dissolved Organic	mg/l as C	NR	3	2	2	2	2	2	2	2
Carbon - Total Organic	mg/l as C	NR	4	3	2	3	3	3	3	3
Chloride	mg/l	1	11	112	88	98	87	87	92	77
Chromium	mg/l	0.001	0.004	0.003	0.003	0.002	0.003	0.005	0.003	0.002
Copper	mg/l	<0.001	0.002	0.002	0.001	0.002	0.002	0.002	0.002	0.002
Fluoride	mg/l	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Hardness	mg/l as CaCO ₃	39	76	98	96	96	96	96	96	101
Iron	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Lead	mg/l	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Magnesium	mg/l	4	10	14	13	13	13	13	13	13
Manganese	mg/l	<0.005	0.013	0.008	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
Nitrate + Nitrite	mg/l as N	<0.01	0.13	0.19	NR	NR	0.29	NR	0.26	0.19
Phosphorus-Ortho	mg/l as P	<0.01	0.07	0.06	NR	NR	0.07	NR	0.07	0.04
Phosphorus-Total	mg/l	<0.01	0.16	0.10	NR	NR	0.09	NR	0.09	0.05
Selenium	mg/l	NR	<0.001	0.001	NR	NR	NR	0.001	NR	NR
Sodium	mg/l	4	16	71	58	64	58	57	59	54
Specific Conductance	µS/cm	91	219	533	490	525	488	514	496	469
Sulfate	mg/l	2	10	23	24	25	26	24	24	28
Total Dissolved Solids	mg/l	57	132	321	299.5	317	293	309	309	287
Turbidity	NTU	2	48	11	12	5	4	5	7	2
Zinc	mg/l	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.01	<0.005

mg/l milligrams per liter

µg/l micrograms per liter

µS/cm microSiemens per centimeter

NR - Not Reported

NTU - nephelometric turbidity units

Table 33. Water Quality At Selected Delta Stations

August 2002

Date	Tides (feet above mean sea level)		Flow In CFS		Electrical Conductivity in milliSiemens/cm								Cl in mg/l		
			Net Delta Outflow Index		Rio Vista	Antioch	Chippis island	Emmaton		Jersey Point		Clifton Court	Cache Slough	Delta Mendota Canal	
	(Antioch) Daily Mean		Mean Daily	Monthly Average				md	md	md	14dm	md	14dm		
	Hi	Half		md	md	md	14dm	md	14dm	md	md	md	md		
1	2.97	1.19	4,899	4,899	10,190	1.93	6.44	0.29	0.62	0.96	1.07	0.30	0.51	0.39	107
2	3.33	1.35	4,608	4,753	9,772	2.10	7.03	0.33	0.61	1.02	1.08	0.30	0.48	0.39	122
3	3.57	1.67	4,078	4,528	9,412	2.39	8.03	0.51	0.60	1.09	1.08	0.30	0.43	0.42	124
4	3.41	1.45	3,623	4,302	10,037	2.38	7.60	0.52	0.54	1.04	1.07	0.30	0.48	0.43	128
5	3.41	1.38	4,551	4,352	9,808	2.37	7.46	0.49	0.48	1.01	1.06	0.30	0.49	0.44	143
6	3.63	1.38	4,206	4,327	10,128	2.35	7.64	0.64	0.50	1.01	1.05	0.30	0.47	0.44	137
7	3.62	1.27	4,700	4,381	10,127	2.21	7.50	0.61	0.50	0.99	1.04	0.30	0.50	0.41	140
8	3.59	1.17	4,526	4,399	9,816	2.29	7.40	0.65	0.50	1.00	1.03	0.30	0.53	0.39	149
9	3.48	1.13	4,121	4,368	9,559	2.56	7.83	0.70	0.50	0.99	1.02	0.30	0.53	0.37	156
10	3.43	1.26	3,715	4,303	9,345	2.71	8.64	0.75	0.51	1.03	1.01	0.30	0.52	0.39	162
11	3.26	1.34	3,462	4,226	9,085	2.82	9.21	0.78	0.52	1.09	1.01	0.30	0.52	0.37	162
12	2.99	1.37	3,207	4,141	8,878	2.91	9.24	0.81	0.55	1.12	1.02	0.30	0.53	0.41	166
13	3.02	1.36	3,548	4,096	8,834	2.88	9.21	0.74	0.58	1.16	1.03	0.30	0.53	0.43	166
14	3.27	1.39	3,541	4,056	9,016	2.86	8.96	0.75	0.61	1.17	1.05	0.30	0.51	0.42	166
15	3.47	1.43	2,999	3,986	8,923	3.17	9.14	0.76	0.65	1.22	1.07	0.30	0.47	0.42	170
16	3.61	1.53	3,281	3,941	9,028	3.40	9.75	0.86	0.68	1.29	1.09	0.30	0.42	0.42	162
17	3.67	1.68	3,241	3,900	9,093	3.48	10.14	1.01	0.72	1.41	1.11	0.30	0.41	0.41	160
18	3.67	1.61	3,346	3,870	8,960	3.58	9.87	0.94	0.75	1.40	1.14	0.30	0.42	0.43	160
19	3.73	1.64	3,424	3,846	8,771	3.76	9.04	1.14	0.80	1.42	1.16	0.30	0.44	0.47	161
20	3.61	1.48	3,073	3,807	9,444	3.64	9.57	1.11	0.83	1.38	1.19	0.30	0.59	0.49	165
21	3.39	1.28	4,049	3,819	9,617	3.39	8.97	0.87	0.85	1.33	1.22	0.30	0.56	0.48	172
22	3.30	1.27	4,113	3,832	9,435	3.40	9.23	0.95	0.87	1.33	1.24	0.30	0.51	0.48	165
23	3.12	1.12	3,841	3,833	9,405	3.10	8.84	0.78	0.88	1.26	1.26	0.30	0.49	0.48	173
24	2.79	0.97	3,954	3,838	8,772	2.93	8.21	0.66	0.87	1.24	1.27	0.30	0.50	0.48	173
25	2.52	0.83	3,088	3,808	8,243	2.79	7.57	0.53	0.85	1.19	1.28	0.30	0.55	0.48	178
26	2.15	0.72	2,586	3,761	7,758	2.65	7.10	0.42	0.82	1.15	1.28	0.30	0.60	0.47	172
27	2.34	0.78	2,590	3,717	7,023	2.75	7.53	0.46	0.80	1.22	1.29	0.30	0.59	0.48	180
28	3.03	1.19	2,725	3,682	6,617	3.41	0.00	0.78	0.81	1.38	1.30	0.30	0.49	0.49	190
29	2.96	1.46	2,718	3,649	7,274	3.80	10.91	0.95	0.82	1.42	1.32	0.30	0.40	0.49	185
30	3.05	1.33	2,688	3,617	7,534	3.59	10.01	0.75	0.81	1.37	1.32	0.30	0.43	0.49	190
31	3.03	1.33	2,604	3,584	7,512	3.54	9.43	0.55	0.78	1.42	1.32	0.30	0.43	0.49	193

Clifton Court Cl(mg/l)=200X EC - 25

e = Estimated

N.R. = No Record.

N.C. = Not computed due to insufficient data.

f = Excess Delta conditions with fish concerns.

r = Excess delta conditions with export/inflow ratio concerns.

s = Balanced water conditions with storage withdrawals.

dm = Daily Mean

md = Mean Daily

Table 34. Pesticides, Herbicides, and Other Organic Substances Detected In the SWP

August 2002

Sampling Location	Sample Date 1/	Chemical Detected	Concentration µg/l 2/
North Bay Aqueduct At Barker Slough Pumping Plant	June 19, 2002	None Detected	
California Aqueduct At Banks Pumping Plant	June 19, 2002	None Detected	
O'Niell Forebay Outlet Check 13	June 19, 2002 June 19, 2002	2,4-Dichlorophenylacetic acid (DCAA) Simazine	1.3 0.02
Delta Mendota Canal At McCabe Road	June 19, 2002 June 19, 2002 June 19, 2002 June 19, 2002	2,4-Dichlorophenylacetic acid (DCAA) 2,4-D Atrazine Simazine	1.27 0.43 0.02 0.02
California Aqueduct Near Kettleman City (Check 21)	June 18, 2002 June 18, 2002	2,4-Dichlorophenylacetic acid (DCAA) Simazine	1.33 0.02
California Aqueduct At Near Highway 119 (Check 21)	June 19, 2002 June 19, 2002	2,4-Dichlorophenylacetic acid (DCAA) Simazine	1.33 0.04
Devil Canyon Power Plant At Entrance To Santa Ana Pipeline	June 19, 2002	None Detected	

1/ Locations are normally sampled during March, June, and September. Monthly reports will include data for the month in which samples were most recently taken.

2/ Micrograms per liter.

Table 35. Oroville and Delta Field Divisions Energy Data

(in kWh)

August 2002

Date	Oroville Thermalito Complex		Barker Slough Pumping Plant	Cordelia Pumping Plant Load	Banks Pumping Plant		South Bay Pumping Plant Load	Del Valle Pumping Plant Load
	Generation	Load			Total Load	SWP Load		
1	9,507,168	0	43,288	35,266	4,179,840	3,827,840	528,595	256
2	8,953,632	0	44,436	35,301	3,664,896	3,312,896	528,155	240
3	7,789,824	0	44,499	35,042	3,966,336	3,614,336	528,505	230
4	4,722,624	0	35,350	29,428	3,942,336	3,590,336	528,820	217
5	8,329,536	0	32,795	28,063	3,979,008	3,627,008	528,680	229
6	8,428,032	0	34,692	29,554	3,779,712	3,427,712	524,150	220
7	8,390,592	0	39,872	34,468	3,666,048	3,314,048	528,040	228
8	8,493,984	0	49,399	40,299	3,929,856	3,513,856	529,165	245
9	9,318,816	0	51,982	39,550	3,916,992	3,500,992	528,695	268
10	7,355,232	0	50,743	36,540	3,944,640	3,528,640	528,380	268
11	6,274,080	0	41,048	33,551	3,941,568	3,525,568	528,320	259
12	9,087,264	0	41,622	32,865	3,933,696	3,517,696	528,620	252
13	7,312,896	0	43,729	34,902	3,568,896	3,152,896	528,085	252
14	6,934,464	1,728	46,515	33,754	3,583,488	3,167,488	528,255	285
15	7,001,568	0	47,754	35,826	3,473,088	3,057,088	528,365	283
16	7,490,880	0	48,265	36,575	3,810,816	3,394,816	527,835	308
17	5,097,600	0	43,988	32,676	3,838,848	3,602,848	528,615	321
18	4,713,408	0	36,302	27,370	3,911,616	3,911,616	528,390	318
19	7,257,312	0	38,906	31,227	3,920,256	3,920,256	529,115	384
20	6,922,944	0	37,086	31,633	3,911,616	3,911,616	1,240,860	469
21	8,388,864	0	37,765	31,710	3,928,512	3,928,512	528,995	409
22	8,335,008	0	34,279	26,327	4,020,480	4,020,480	529,110	290
23	8,605,728	0	33,558	30,765	4,298,688	4,298,688	529,375	275
24	4,594,752	0	38,262	32,074	3,990,912	3,990,912	528,230	273
25	3,141,792	0	38,892	32,634	3,987,456	3,987,456	528,520	276
26	5,925,600	0	37,835	33,663	3,853,440	3,853,440	528,995	317
27	6,320,160	0	41,342	36,323	3,442,368	3,442,368	514,580	331
28	7,033,824	0	43,022	36,022	2,891,136	2,891,136	510,495	348
29	7,264,512	0	40,635	32,893	2,558,400	2,558,400	527,260	314
30	7,497,792	0	42,805	35,161	3,105,792	3,105,792	510,185	313
31	6,459,840	0	39,928	28,189	3,403,008	3,403,008	514,190	322
Total	222,949,728	1,728	1,280,594	1,029,651	116,343,744	109,899,744	17,027,580	9,000

Table 36. San Luis Field Division Energy Data

(in kWh)

August 2002

Date	Dos Amigos Pumping Plant		Gianelli Pumping-Generating Plant			
	Total Load	SWP Load 1/	Total Generation	SWP Generation 1/	Total Load	SWP Load 1/
1	2,078,928	1,196,928	0	0	623,520	623,520
2	2,086,128	1,204,128	329,184	14,184	382,464	382,464
3	2,189,376	1,307,376	669,312	39,312	672,192	672,192
4	2,334,240	1,446,240	0	0	593,568	593,568
5	1,996,272	1,114,272	998,784	53,784	6,624	6,624
6	2,011,680	1,129,680	763,200	28,200	402,336	402,336
7	2,077,344	1,195,344	0	0	18,432	18,432
8	2,000,736	1,238,736	0	0	413,280	413,280
9	2,102,400	1,340,400	318,240	3,240	47,808	47,808
10	2,096,208	1,334,208	655,776	25,776	406,944	406,944
11	2,127,168	1,359,168	0	0	1,079,712	1,079,712
12	1,927,008	1,165,008	86,976	86,976	365,472	365,472
13	1,915,776	1,153,776	900,000	480,000	274,176	274,176
14	2,069,280	1,307,280	348,768	348,768	11,808	11,808
15	2,248,128	1,702,128	806,400	206,400	7,200	7,200
16	2,093,328	1,547,328	561,024	361,024	7,200	7,200
17	2,224,512	1,678,512	315,360	15,360	272,736	272,736
18	2,556,576	2,004,576	0	0	543,456	543,456
19	1,919,232	1,364,232	327,744	27,744	178,272	178,272
20	1,855,872	1,444,872	321,984	21,984	360,000	360,000
21	1,747,584	1,336,584	319,104	19,104	319,968	319,968
22	1,632,960	1,152,960	1,728	1,728	189,792	189,792
23	1,564,560	1,066,560	0	0	1,546,560	1,546,560
24	1,715,040	1,217,040	0	0	1,065,312	1,019,312
25	1,699,488	1,195,488	0	0	1,619,424	1,067,424
26	1,514,736	1,103,736	0	0	968,544	807,544
27	1,312,704	901,704	0	0	375,264	375,264
28	1,495,152	1,084,152	0	0	419,616	419,616
29	1,379,088	968,088	0	0	735,840	735,840
30	1,374,480	963,480	0	0	601,632	601,632
31	1,546,704	1,135,704	0	0	1,094,688	1,094,688
Total	58,892,688	39,359,688	7,723,584	1,733,584	15,603,840	14,844,840

1/ Negative values may appear in SWP columns and indicate a mismatch of scheduled CVP energy and actual pumping; adjustments to SWP water shares are made to balance the mismatch.

Table 37. San Joaquin Field Division Pumping Plant Energy Load Data

(in kWh)

August 2002

Date	Coastal Branch					California Aqueduct			
	Las Perillas	Badger Hill	Devils Den	Bluestone	Polonio	Buena Vista	Teerink	Chrisman	Edmonston
1	36,198	97,680	81,540	79,434	81,216	1,507,392	1,561,968	3,450,528	12,258,720
2	34,364	89,888	90,846	88,704	88,506	1,494,288	1,563,840	3,360,960	12,171,600
3	42,358	114,512	95,112	92,286	92,340	1,538,712	1,591,200	3,455,712	12,674,160
4	47,220	125,048	115,110	108,882	112,302	1,696,176	1,840,032	4,110,912	15,408,000
5	32,990	87,544	66,168	63,288	66,294	1,280,664	1,338,984	2,973,600	10,648,800
6	36,086	96,648	91,440	89,370	89,010	1,410,264	1,465,776	3,187,584	11,444,400
7	38,476	103,064	92,250	89,496	88,884	1,467,504	1,506,312	3,327,552	12,021,120
8	36,844	98,544	89,874	86,670	87,840	1,478,808	1,510,488	3,317,760	12,178,800
9	33,550	88,872	95,868	92,916	92,808	1,471,752	1,509,552	3,357,504	12,255,120
10	34,990	90,960	99,252	96,408	96,462	1,496,088	1,589,544	3,534,624	12,941,280
11	32,050	84,592	111,276	106,974	108,198	1,619,640	1,703,520	3,763,008	13,958,640
12	21,620	58,448	72,810	69,210	72,756	1,255,464	1,371,744	3,047,328	10,980,000
13	31,246	85,192	90,504	87,084	87,426	1,482,192	1,520,856	3,334,176	12,130,560
14	28,576	74,248	91,548	89,316	89,172	1,452,096	1,505,520	3,292,992	11,885,760
15	29,530	76,568	97,596	95,778	94,518	1,489,752	1,505,808	3,325,536	11,941,200
16	31,390	83,432	92,574	88,974	89,172	1,318,464	1,406,160	3,082,176	11,092,320
17	40,012	106,176	120,888	116,226	117,306	1,480,032	1,533,240	3,376,512	12,471,840
18	30,420	78,408	84,060	77,328	83,430	1,891,944	2,014,704	4,535,424	16,703,280
19	25,822	67,792	84,384	79,434	82,764	1,141,704	1,232,280	2,692,800	9,805,680
20	28,142	74,832	75,078	72,072	72,594	1,192,248	1,210,392	2,646,144	9,498,960
21	32,284	81,984	85,536	82,728	82,764	1,168,344	1,180,584	2,598,048	9,499,680
22	34,616	91,616	95,364	92,700	93,060	1,168,992	1,210,824	2,640,096	9,493,200
23	35,744	92,920	86,400	83,412	84,024	1,150,272	1,188,288	2,587,968	9,474,480
24	38,670	106,328	94,428	92,646	91,566	1,358,712	1,471,032	3,263,904	11,994,480
25	38,146	108,144	112,032	105,372	109,656	1,554,192	1,734,984	3,902,688	14,259,600
26	28,410	73,920	64,926	61,776	64,026	1,252,944	1,360,800	2,984,256	10,771,920
27	32,664	85,328	81,054	78,624	80,874	1,288,296	1,336,896	2,930,688	10,707,120
28	36,118	98,152	98,262	94,824	95,634	1,231,416	1,359,792	2,977,632	10,953,360
29	29,112	77,552	82,584	79,452	80,694	1,322,064	1,375,488	2,993,472	10,823,760
30	28,628	75,712	73,350	69,318	72,090	1,283,904	1,332,504	2,941,920	10,823,040
31	37,600	97,784	91,926	88,020	91,296	1,295,856	1,355,688	2,996,352	10,883,520
Total	1,043,876	2,771,888	2,804,040	2,698,722	2,738,682	43,240,176	45,388,800	99,989,856	364,154,400

Table 38. Southern Field Division Energy Data

(in kWh)

August 2002

Date	West Branch			East Branch			
	Oso Pumping Plant Load	Warne Powerplant Generation	Castaic Powerplant SWP Generation	Alamo Powerplant Generation	Pearblossom Pumping Plant Load	Devil Canyon Powerplant Generation	Mojave Siphon Powerplant Generation
1	537,992	1,277,424	2,040,000	362,432	1,863,744	3,492,576	236,796
2	544,152	1,143,216	2,040,000	343,196	1,747,140	3,495,360	195,594
3	686,504	1,368,432	2,040,000	339,696	1,797,480	3,446,688	218,799
4	699,552	1,132,632	2,040,000	421,680	2,259,036	3,652,320	231,000
5	336,280	1,152,288	2,040,000	378,252	1,946,076	3,529,248	266,973
6	520,296	1,478,088	2,040,000	317,156	1,955,652	3,218,016	249,060
7	619,528	1,231,776	2,040,000	355,264	1,799,136	3,498,240	208,614
8	596,008	1,211,184	2,040,000	353,892	1,725,336	3,492,672	207,606
9	560,280	1,235,592	2,040,000	347,676	1,790,136	3,742,464	199,584
10	583,968	1,212,840	2,040,000	376,880	2,060,280	3,230,880	249,333
11	595,280	1,224,144	2,040,000	419,412	2,258,160	3,463,008	277,746
12	568,232	1,257,984	2,040,000	303,268	1,694,544	3,472,032	187,866
13	485,016	1,278,216	2,040,000	363,104	1,918,092	3,306,816	240,303
14	581,784	1,221,408	2,040,000	314,496	1,753,332	3,520,032	199,857
15	519,232	1,192,464	2,040,000	353,500	1,798,608	3,424,608	214,830
16	493,696	1,239,336	2,040,000	309,988	1,781,004	3,493,920	217,875
17	666,848	1,226,880	2,040,000	312,508	1,714,032	3,422,784	219,723
18	894,320	1,221,408	2,040,000	421,680	2,236,608	3,443,040	220,626
19	313,600	1,378,152	1,320,000	335,916	1,900,164	3,404,352	244,524
20	342,608	835,848	1,320,000	315,420	1,621,728	3,438,912	187,089
21	383,264	883,008	1,320,000	313,768	1,777,188	3,500,256	202,755
22	287,280	833,040	1,320,000	325,080	1,717,608	3,342,528	209,790
23	309,960	807,336	1,320,000	312,200	1,923,228	3,457,536	205,044
24	507,304	1,225,944	1,320,000	345,744	1,968,852	3,452,256	249,669
25	760,032	892,872	1,320,000	373,520	1,949,736	3,494,208	222,054
26	461,944	1,218,600	1,920,000	320,656	1,872,864	3,156,288	217,518
27	459,256	1,201,680	1,920,000	328,216	1,739,220	3,169,824	216,027
28	459,984	1,203,048	1,920,000	366,772	1,773,408	3,134,304	198,492
29	460,264	1,203,120	1,920,000	359,324	1,748,148	3,089,376	210,252
30	460,432	1,225,440	1,920,000	355,124	1,670,196	3,423,648	191,415
31	469,784	1,230,336	1,920,000	359,576	1,751,448	3,171,360	205,191
Total	16,164,680	36,443,736	57,480,000	10,805,396	57,512,184	105,579,552	6,802,005